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1994

STATISTICS

DATA THROUGH 1993

PAPER, PAPERBOARD & WOOD PULP

American Forest & Paper Association, 1111 19th Street, N.W., Suite 800, Washington, D.C. 20036

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FOREWORD

The American Forest and Paper Association is pleased to present the thirty-second edition of the **Statistics of Paper, Paperboard and Wood Pulp.**

This report provides a comprehensive up-to-date statistical base of annual data on the Paper, Paperboard and Wood Pulp industries, together with additional information on the entire Paper and Allied Products industry group.

Data on paper, paperboard and wood pulp production, imports, exports, consumption, capacity and price indexes, by major grade, are supplemented with tables showing fibrous materials consumption, industry patterns of employment and wage rates, energy consumption and financial trends. Also included is an analysis of the demand for paper and paperboard, by major grade, relative to the real gross domestic product.

The tables are grouped into four functional sections: production and related data, regional data, input trends, and financial information. Supplemental tables show production, imports, exports and new supply of wet machine board and construction paper and paperboard, as well as the import and export data used in analyzing demand for paper and paperboard, by grades.

Tabular information in this report is complemented by graphs illustrating changes in the growth and structure of the paper, paperboard and wood pulp industries, along with regional shifts in paper & paperboard and wood pulp production, as well as changes in raw material consumption.

Comments or suggestions for improvement of this report are welcomed, and should be directed to Dr. Stan Lancey or Mary Magee.

September 1994

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SECTION I

PRODUCTION AND RELATED DATA

Highlights of 1993:

Paper and paperboard production rose for the eighth consecutive year in 1993 to reach 84,957,000 tons, excluding wet machine board and the construction grades. The 2.4% increase was in line with long-term growth of paper and paperboard production, averaging 2.7% a year from 1983 to 1993. (See Table IA.)

New supply of paper and paperboard -- domestic production plus imports less exports -- increased 3.8% in 1993 following an equally brisk advance in 1992 and a 2.0% decline in the recession year of 1991. The trend rate of new supply growth has averaged 2.7% a year since 1983, which was consistent with constant dollar GDP growth of 2.8% a year during the same period.

Increased import penetration accounted for much of the 1993 gain in new supply of paper and paperboard. Specifically, imports of paper, paperboard, and converted products jumped 11.5% (1,425,000 tons) in 1993, reflecting weak foreign economic conditions. Exports also rose in 1993 but by a far more modest 1.7% (153,000 tons).

The industry's paper sector increased production by 1.9% in 1993. Newsprint production remained approximately stable from 1992 to 1993. Printing-writing paper shipments rose 2.9%, which was well below the 6.3% increase in printing-writing paper new supply with increased import penetration accounting for the difference. Production of tissue paper advanced 3.9% in 1993.

Paperboard production scored a 2.9% increase in 1993, with most of that strength coming from the boxboard sector where production rose by an above-trend 6.2%. Containerboard production, on the other hand, edged up just 1.5% in 1993 to 29.8 million tons, despite a relatively strong 5.4% gain in fiber box shipments. Inventory drawdowns at box plants and mills and reduced exports of containerboard explain the divergent growth patterns. In contrast to containerboard, production of boxboard for export rose a moderate 2.3% in 1993.

Tables -- The tables in this section present detailed data on production, imports, exports, new supply, capacity and value of shipments of paper and paperboard products, together with analyses of demand for paper and paperboard, by major grade.

TABLE I

PAPER AND PAPERBOARD

(Includes Wet Machine Board and Construction Grades)

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1993

YEAR	PRODUCTION	IMPORTS (Incl. Products)	EXPORTS (Incl. Products)	NEW SUPPLY*	POPULATION	PER CAPITA NEW SUPPLY	REAL GROSS DOMESTIC PRODUCT	NEW SUPPLY TO REAL GDP
	Thousand Short Tons				Millions	Pounds	Billions of 1987 $'s	000 Tons Per $ Billion
1899	2,168	–	–	2,168	74.9	57.7	–	–
1919	5,966	708	421	6,253	105.1	119.0	–	–
1929	11,140	2,534	262	13,412	121.8	220.2	841.8 E	15.932 E
1934	9,187	2,265	163	11,289	126.5	178.5	636.7 E	17.730 E
1939	13,510	2,687	249	15,948	131.0	243.5	850.1 E	18.760 E
1944	17,183	2,576	314	19,445	138.9	280.0	1,578.2 E	12.321 E
1949	20,098	4,752	367	24,483	149.7	327.1	1,315.6 E	18.609 E
1954	26,411	5,165	682	30,894	163.0	379.1	1,680.1 E	18.388 E
1959	33,748	5,517	906	38,359	177.8	431.4	1,928.8	19.887
1964	40,961	6,209	1,694	45,476	191.9	474.0	2,340.6	19.429
1965	43,455	6,585	1,770	48,270	194.3	496.9	2,470.5	19.538
1966	46,701	7,358	1,942	52,117	196.6	530.2	2,616.2	19.921
1967	46,568	6,952	2,085	51,435	198.7	517.7	2,685.2	19.155
1968	50,146	6,842	2,625	54,363	200.7	541.7	2,796.9	19.437
1969	52,927	7,258	2,749	57,436	202.7	566.7	2,873.0	19.992
1970	51,670	7,115	2,817	55,968	205.1	545.9	2,873.9	19.475
1971	53,162	7,406	3,118	57,450	207.7	553.3	2,955.9	19.436
1972	57,434	7,676	3,069	62,041	209.9	591.2	3,107.1	19.967
1973	59,900	8,131	3,027	65,004	211.9	613.5	3,268.6	19.887
1974	59,040	8,065	3,797	63,308	213.9	592.1	3,248.1	19.491
1975	50,976	6,253	3,116	54,113	216.0	501.1	3,221.7	16.796
1976	58,329	7,142	3,457	62,014	218.0	568.8	3,380.8	18.343
1977	60,040	7,432	3,230	64,243	220.2	583.4	3,533.3	18.182
1978	62,047	9,113	3,373	67,787	222.6	609.1	3,703.5	18.304
1979	64,345	9,123	3,672	69,796	225.1	620.3	3,796.8	18.383
1980	63,600	8,780	5,214	67,166	227.7	589.9	3,776.3	17.786
1981	64,258	8,339	4,641	67,956	230.0	591.0	3,843.1	17.683
1982 **	60,952	8,024	4,246	64,730	232.2	557.6	3,760.3	17.214
1983 **	66,747	8,986	4,569	71,165	234.3	607.5	3,906.6	18.217
1984 **	70,249	11,075	4,387	76,937	236.3	651.0	4,148.5	18.546
1985 **	68,683	11,522	4,071	76,133	238.5	638.5	4,279.8	17.789
1986 **	72,505	11,936	4,687	79,755	240.7	662.8	4,404.5	18.108
1987 **	75,951	12,837	5,304	83,484	242.8	687.7	4,539.9	18.389
1988 **	78,087	13,110	5,691	85,506	245.0	697.9	4,718.6	18.121
1989 **	78,356	13,100	6,300	85,156	247.3	688.6	4,838.0	17.601
1990 **	80,354	13,148	6,796	86,705	249.9	693.9	4,897.3	17.705
1991 **	81,100	12,167	8,331	84,936	252.7	672.3	4,867.6	17.449
1992 R **	84,558	12,543	8,971	88,130	255.5	690.0	4,979.3	17.699
1993 P **	86,557	13,971	9,126	91,402	258.2	707.9	5,134.5	17.802

SOURCE: Production: - 1899 - 1954 - Department of Commerce, Bureau of the Census.
Production - 1959-1993 - American Forest & Paper Association.
Imports and Exports - Department of Commerce, Bureau of Census.
Population - Department of Commerce, Bureau of Census. Real Gross Domestic Product - Department of Commerce, BEA

NOTES: Population data include armed forces overseas.
E - Estimate. All calculations by American Forest & Paper Association. P - Preliminary R - Revised
Production, imports and exports, 1899 - 1944, include hard pressed board.
* New Supply = Production plus imports less exports; includes imports and exports of products.
** Includes AF&PA estimate for construction and wet machine board grades: 1982 - 1,662,000 tons;
1983 & 1984 - 1,800,000 tons; 1985 - 1,700,000 tons; 1986 - 1,600,000 tons; 1987 - 1,590,000 tons;
1988 - 1,500,000 tons; 1989 - 1,570,000 tons; 1990 - 1,570,000 tons; 1991 - 1,600,000; 1992 - 1,600,000; 1993 - 1,600,000

Chart 1

PAPER AND PAPERBOARD

(Incl. Wet Machine Board & Construction Grades)

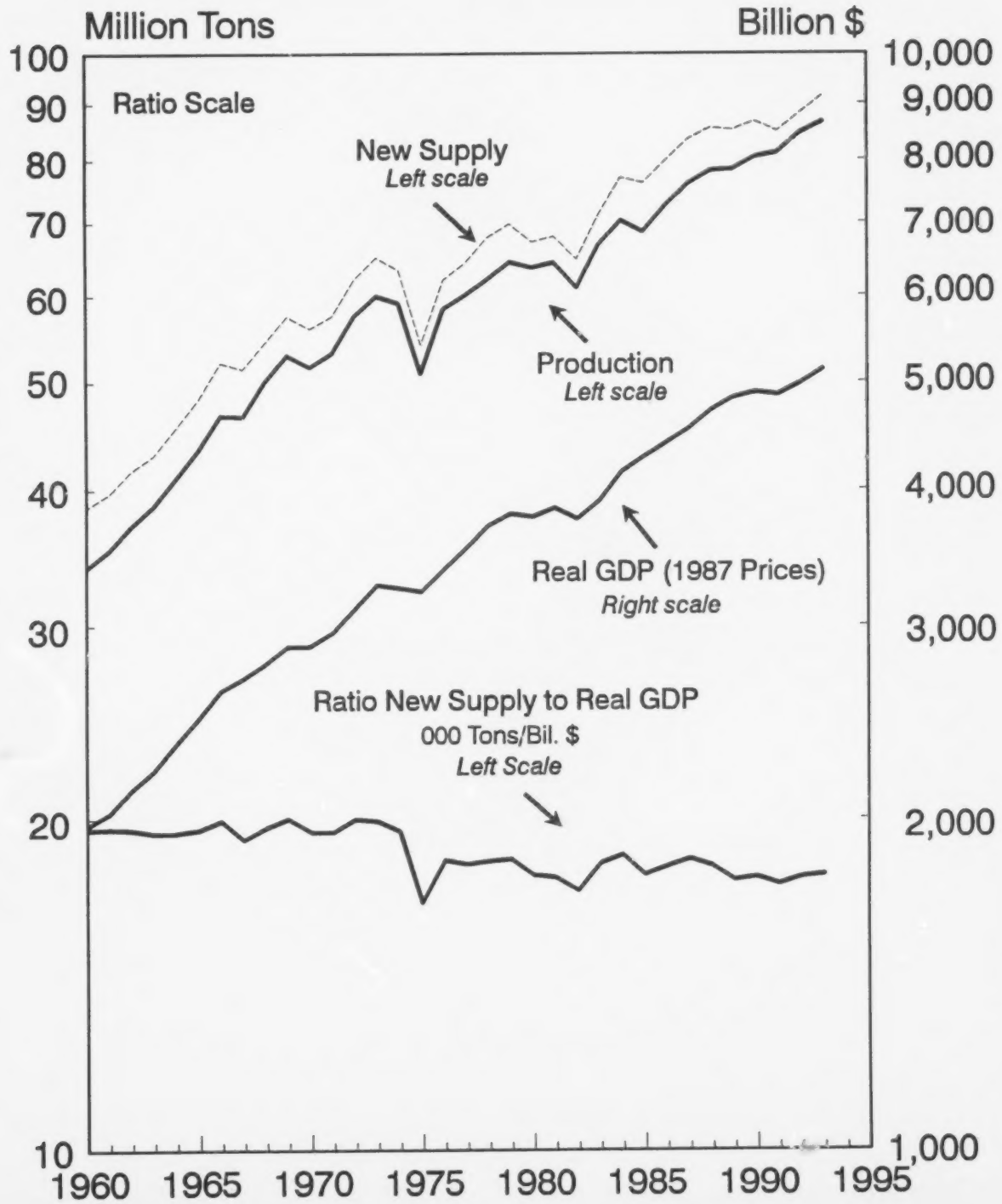


TABLE IA

PAPER AND PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1993

YEAR	PRODUCTION	IMPORTS (Incl. Products)	EXPORTS (Incl. Products)	NEW SUPPLY *	POPULATION	PER CAPITA NEW SUPPLY	REAL GROSS DOMESTIC PRODUCT	RATIO OF NEW SUPPLY TO REAL GDP
	Thousand Short Tons				Millions	Pounds	Billions of 1987 $'s	000 Tons Per $ Billion
1959	30,997	5,484	874	35,607	177.8	400.5	1,928.8	18.46
1960	31,221	5,611	990	35,842	180.7	396.7	1,970.8	18.19
1961	32,548	5,663	1,174	37,037	183.7	403.2	2,023.8	18.30
1962	34,408	5,719	1,154	38,973	186.5	417.9	2,128.1	18.31
1963	35,913	5,637	1,302	40,248	189.2	425.5	2,215.6	18.17
1964	38,066	6,154	1,660	42,560	191.9	443.6	2,340.6	18.18
1965	40,489	6,545	1,737	45,297	194.3	466.3	2,470.5	18.33
1966	43,904	7,327	1,904	49,327	196.6	501.8	2,616.2	18.85
1967	43,745	6,917	2,054	48,608	198.7	489.3	2,685.2	18.10
1968	47,085	6,793	2,587	51,291	200.7	511.1	2,796.9	18.34
1969	49,824	7,209	2,703	54,330	202.7	536.1	2,873.0	18.91
1970	48,719	7,057	2,779	52,997	205.1	516.9	2,873.9	18.44
1971	49,741	7,319	3,076	53,984	207.7	519.9	2,955.9	18.26
1972	53,842	7,567	3,020	58,389	209.9	556.4	3,107.1	18.79
1973	56,346	8,019	2,966	61,399	211.9	579.5	3,268.6	18.78
1974	55,756	7,970	3,720	60,006	213.9	561.2	3,248.1	18.47
1975	47,997	6,164	3,050	51,111	216.0	473.3	3,221.7	15.86
1976	54,993	7,042	3,388	58,647	218.0	538.0	3,380.8	17.35
1977	56,656	7,294	3,171	60,779	220.2	551.9	3,533.3	17.20
1978	58,571	8,781	3,301	64,051	222.6	575.5	3,703.5	17.29
1979	61,070	8,738	3,610	66,198	225.1	588.3	3,796.8	17.44
1980	61,042	8,304	5,148	64,198	227.7	563.8	3,776.3	17.00
1981	62,109	7,941	4,561	65,489	230.0	569.6	3,843.1	17.04
1982	59,290	7,603	4,187	62,706	232.2	540.1	3,760.3	16.68
1983	64,947	8,509	4,502	68,954	234.3	588.6	3,906.6	17.65
1984	68,449	10,576	4,310	74,715	236.3	632.2	4,148.5	18.01
1985	66,983	11,105	4,003	74,085	238.5	621.3	4,279.8	17.31
1986	70,905	11,597	4,593	77,909	240.7	647.5	4,404.5	17.69
1987	74,361	12,528	5,197	81,692	242.8	672.9	4,539.9	17.99
1988	76,587	12,788	5,559	83,815	245.0	703.0	4,718.6	17.76
1989	76,786	12,910	6,264	83,432	247.3	674.6	4,838.0	17.25
1990	78,784	13,006	6,787	85,003	249.9	680.3	4,897.3	17.36
1991	79,500	12,074	8,311	83,262	252.7	659.1	4,867.6	17.11
1992 R	82,958	12,406	8,946	86,418	255.5	676.6	4,979.3	17.36
1993 P	84,957	13,831	9,099	89,689	258.2	694.6	5,134.5	17.47

SOURCE: See Table I.

NOTES: All data exclude wet machine board, building paper and insulating board.
* New Supply = Production plus imports less exports.
P - Preliminary R - Revised

Chart 2

PAPER AND PAPERBOARD

(Excl. Wet Machine Board & Construction Grades)

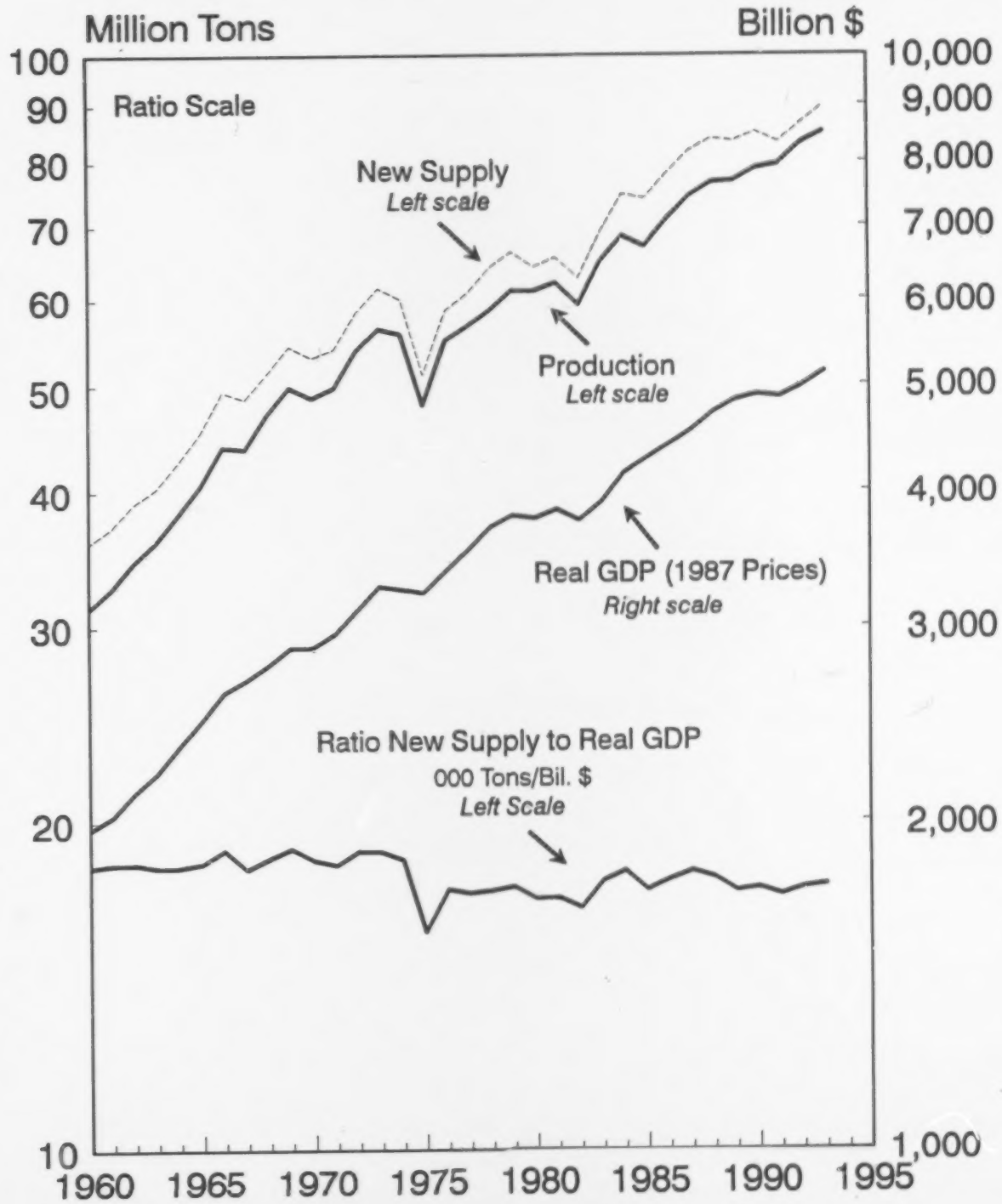


Chart 3

UNITED STATES PAPER PRODUCTION

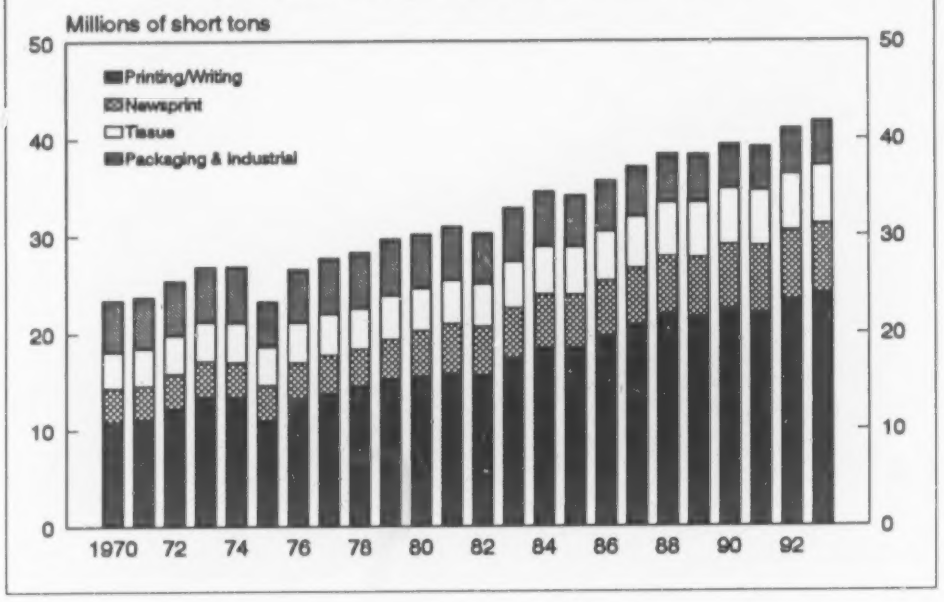


Chart 4

UNITED STATES PAPERBOARD PRODUCTION

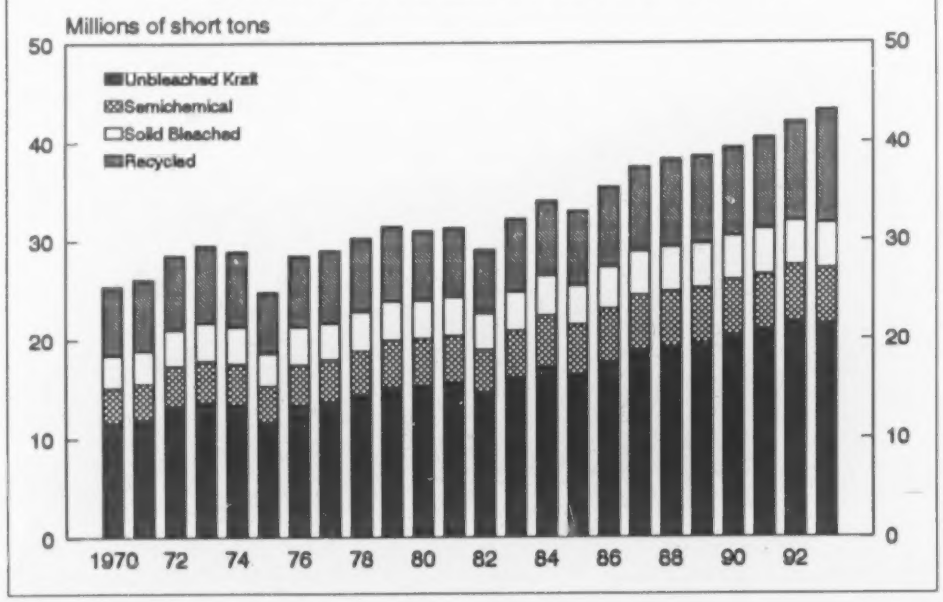


Chart 5

CHANGES IN THE STRUCTURE OF THE PAPER INDUSTRY

Percent of Total Paper Production

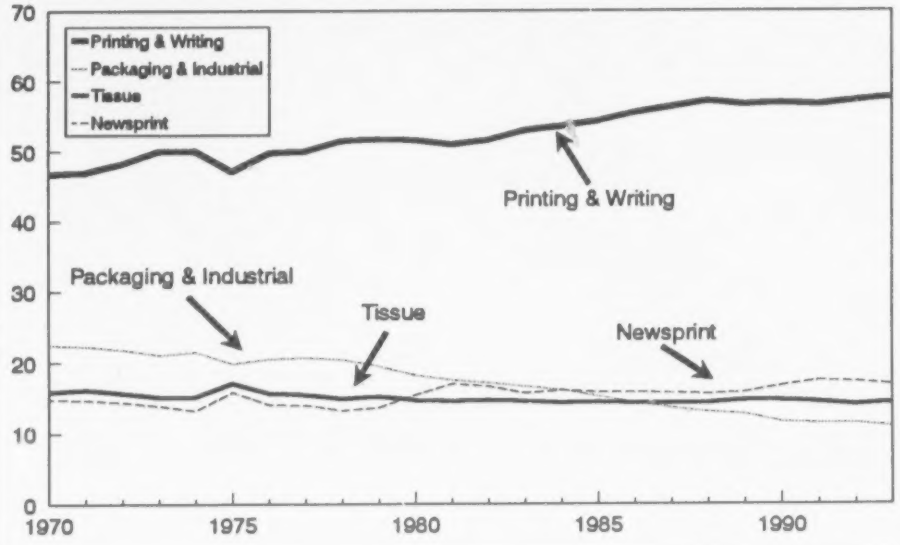


Chart 6

PERCENT OF U.S. NEWSPRINT CONSUMPTION PRODUCED IN THE U.S. AND CANADA

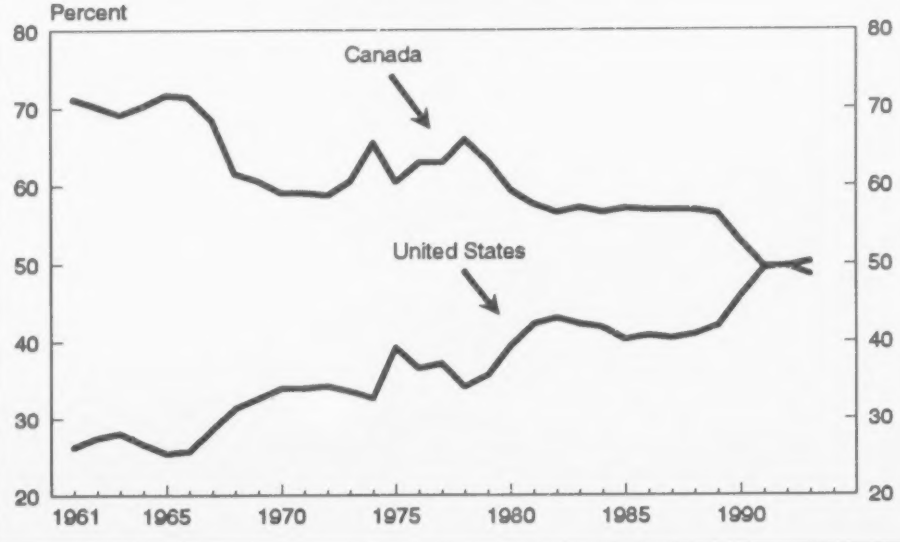


TABLE II
TOTAL PAPER SHIPMENTS
1965 - 1993
(Thousands of Tons)

	1965	1966	1967	1968	1969	1970	1971
TOTAL PAPER, ALL GRADES	19,157.0	20,724.9	20,925.6	22,181.1 RS	23,448.7	23,351.2	23,722.2
Newsprint Production	2,245.0	2,483.0	2,709.0	3,045.0	3,362.0	3,464.0	3,476.0
Total Printing-Writing Papers	9,337.5	10,318.4	10,121.9	10,481.5 RS	11,139.1	10,903.9	11,132.1
Uncoated Groundwood	974.0	1,088.3	1,019.6	1,090.3	1,094.9	1,084.6	1,089.2
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4	929.0
Converting	160.0	211.9	213.2	207.0	180.9	160.2	160.2
Coated Papers	2,814.2	3,087.6	3,086.4	3,100.5	3,306.4	3,239.2	3,191.9
Uncoated Free Sheet Papers	4,216.0	4,691.9	4,577.0	4,787.7	5,182.9	5,090.4	5,350.9
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6	761.5
Form Bond	490.0	575.0	600.0	570.9	688.7	722.1	787.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2	51.5
Mimeograph	117.3	125.4	122.7	134.9	132.6	126.4	125.5
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6	162.9
Manifold	19.9	20.2	17.2	14.0	11.0	9.8	10.7
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9	51.9
Carbonless	N.A.	N.A.	N.A.	50.0	65.0	80.0	90.0
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6	24.5
Other	302.2	330.3	344.7	N.A.	N.A.	N.A.	N.A.
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2	181.0
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1	147.6
Offset	1,062.4	1,221.9	1,165.3	1,295.4	1,381.5	1,384.0	1,467.9
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1	467.6
Tablet	304.4	346.3	294.6	313.0	320.9	342.4	401.3
Kraft Envelope Papers: Total	194.0	203.7	188.5	186.6	208.8	189.6	176.9
Brown Kraft - Estimated	67.0 E	68.1 E	92.9 E	91.4 E	102.9	95.7	93.7
Bleached Kraft - Estimated	127.0 E	135.6 E	95.6 E	95.2 E	105.9	93.9	83.2
Other	131.6	153.7	139.3	450.4	472.3	424.8	443.0
Thin Papers	211.3	245.4	238.0	261.6	289.0	287.9	292.3
Cotton Fiber Papers	122.3	126.3	124.8	124.0	128.1	115.4	112.8
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5	75.7
Other Business	29.0	28.8	30.1	25.2	24.7	23.4	21.1
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5	16.0
Bleached Bristols	999.7	1,078.9	1,076.1	1,117.4	1,137.8	1,086.4	1,095.0
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6	458.3
Tag	194.9	196.9	187.4	203.7	193.5	184.3	193.5
File Folder	64.0	71.4	71.0	77.8	76.5	72.0	80.9
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3	106.1
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0	32.9
Postcard	8.8	10.3	8.5	5.2	6.8	6.7	6.7
Coated Bristol	129.4	144.4	145.9	167.7	173.5	189.5	216.6
Total Packaging and Industrial Papers	4,683.9	4,823.7	4,865.7	5,198.8	5,336.7	5,264.8	5,281.4
Kraft & Specialty Pkg. **	4,319.1	4,430.1	4,479.2	4,753.0	4,861.7	4,809.7	4,807.1
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4	3,649.2
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4	280.3
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4	1,929.3
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3	930.4
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3	509.2
Bleached Packaging Papers (C)	825.4	801.1	891.2	942.8	975.1	934.0	952.1
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6	205.7
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6	234.7
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9	101.9
Other Converting	382.9	347.4	398.9	435.8	418.7	397.9	409.8
Specialty Packaging (C) **	200.6	214.6	196.1	207.7	216.4	203.3	205.8
Special Industrial Papers (C)	364.8	393.6	386.5	445.8	475.0	455.1	474.3
Total Tissue Papers (C)	2,890.6	3,099.8	3,229.0	3,455.8	3,610.9	3,718.5	3,832.7
Total Sanitary Tissue Stock	2,651.4	2,847.5	2,976.9	3,217.1	3,368.7	3,494.0	3,604.4
Bathroom Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1	1,376.2
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0	341.1
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2	394.7
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1	1,183.7
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8	54.9
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8	253.8
Total All Other Tissue	239.2	252.3	252.1	238.7	242.2	224.5	228.3

SOURCE: American Forest & Paper Association. C - Current Industrial Reports, Pulp, Paper and Board, Census. E - Estimate
RS - Revised Series using AF&PA data. ** Formerly referred to as Glassine, Greaseproof and Vegetable Parchment

TABLE II (Cont.)
TOTAL PAPER SHIPMENTS
1965 - 1993
(Thousands of Tons)

	1972	1973	1974	1975	1976	1977	1978
TOTAL PAPER, ALL GRADES	25,358.5	26,797.3	26,862.7	23,260.3	26,577.4	27,721.6	28,319.5
Newsprint Production	3,656.0	3,738.0	3,561.0 #	3,691.0	3,735.9	3,870.5	3,767.5
Total Printing-Writing Papers	12,194.5	13,371.2	13,431.4	10,965.6	13,207.3	13,835.9	14,548.7
Uncoated Groundwood	1,126.0	1,180.9	1,192.4	1,127.2	1,320.6	1,359.7	1,354.4
Publishing and Printing	950.9	985.1	1,001.8	947.5	1,066.5	1,082.4	1,061.0
Converting	175.1	195.8	190.6	179.7	254.1	277.3	293.4
Coated Papers	3,483.2	3,779.1	3,775.8	3,155.4	3,933.1	4,210.3	4,399.9
Uncoated Free Sheet Papers	5,953.2	6,673.6	6,755.3	5,328.3	6,452.8	6,748.8	7,202.0
Bond and Writing	889.6	1,075.0	1,332.6	1,017.3	1,278.9	1,353.5	1,424.7
Form Bond	913.0	1,119.9	1,161.5	950.1	1,164.4	1,208.3	1,330.5
Ledger	53.9	62.0	71.0	51.2	57.8	(	(
Mimeograph	128.2	143.3	128.8	96.2	100.8	161.4	161.7
Manifold	11.8	12.7	11.7	9.0	12.0	(	(
Duplicating	171.4	182.4	178.4	123.6	136.0	147.0	149.5
Papeterie and Wedding	51.1	57.3	47.3	34.2	47.5	43.6	49.2
Carbonless	105.0	120.0	160.0	140.0	190.0	225.0	250.0
Opaque Circular	26.2	33.6	38.1	26.6	32.8	32.7	N.A.
Other			Not	Applicable			
Cover and Text Papers	194.4	219.5	213.1	156.2	175.3	189.1	212.1
M.F., E.F. & Super Calendered	128.6	154.6	128.1	66.5	69.3	66.1	69.5
Offset	1,688.0	1,862.5	1,838.7	1,462.5	1,781.4	1,889.5	1,920.2
White Wove Envelope	527.0	570.9	530.6	456.6	519.9	554.4	592.3
Tablet	396.5	305.5	167.5	229.3	299.6	285.4	350.4
Kraft Envelope Papers: Total	189.5	214.0	203.1	163.8	204.0	203.3	230.2
Brown Kraft - Estimated	93.2	106.7	98.3	83.4	101.4	101.1	121.1
Bleached Kraft - Estimated	96.3	107.3	104.8	80.4	102.6	102.2	109.1
Other	479.0	540.4	544.8	345.2	383.1	389.5	461.7
Thin Papers	333.2	358.2	371.8	310.8	348.4	338.7	351.7
Cotton Fiber Papers	119.1	123.7	117.0	94.5	104.2	108.5	114.4
Bond and Writing	81.1	85.5	82.2	67.6	75.8	80.2	84.4
Other Business	22.2	22.8	20.8	16.3	15.8	15.6	16.3
Technical and Other	15.8	15.4	14.0	10.6	12.6	12.7	13.7
Bleached Bristols	1,179.8	1,255.7	1,219.1	949.4	1,048.2	1,069.9	1,126.3
Tabulating Index	465.0	491.2	498.6	372.7	334.3	338.0	310.6
Tag	217.1	220.3	140.1	132.3	177.6	177.1	207.7
File Folder	88.3	87.1	66.9	86.0	92.0	99.3	112.3
Index Bristol	120.9	130.9	181.0	119.0	140.8	135.6	143.4
Printing Bristol	39.2	46.9	52.5	37.9	43.0	46.4	51.3
Postcard	5.7	3.1	0.2	1.3	1.4	1.3	0.6
Coated Bristol	243.6	276.2	279.8	200.2	259.1	272.2	300.4
Total Packaging and Industrial Papers	5,531.3	5,649.3	5,783.9	4,624.1	5,450.6	5,729.6	5,788.6
Kraft & Specialty Pkg. **	4,986.5	4,999.2	5,132.6	4,138.4	4,824.0	5,151.2	5,237.6
Unbleached Kraft Papers	3,810.9	3,901.6	4,033.5 RS	3,253.7	3,788.1	3,805.6	3,863.4
Wrapping	282.5	272.3	175.3 RS	139.1	150.0	156.4	156.3
Bag and Sack (Exc. Shipping Sack)	2,014.5	2,006.2	2,130.5 RS	1,924.6	2,106.2	2,099.7	2,224.5
Shipping Sack	935.7	1,025.8	1,187.2 RS	838.4	1,004.2	1,035.0	990.3
Other Converting	578.2	597.3	540.5 RS	351.6	527.7	514.5	492.3
Bleached Packaging Papers (C)	941.6	867.1	858.6	693.5	828.7	1,127.0	1,115.2 @
Wrapping	204.0	158.1	143.1	115.3	126.4	136.1	154.2
Bag and Sack (Exc. Shipping Sack)	240.8	254.2	245.2	227.8	273.9	304.1	276.7
Shipping Sack	105.1	104.4	130.2	95.3	127.6	106.8	91.6
Other Converting	391.7	350.4	340.1	255.1	300.8	580.0	592.7
Specialty Packaging (C) **	234.0	230.5	240.5	191.2	207.2	218.6	259.0
Special Industrial Papers (C)	544.8	650.1	651.3 RS	485.7	626.6	578.4	551.0
Total Tissue Papers (C)	3,976.7	4,038.8	4,086.4 RS	3,979.6	4,183.6	4,285.6	4,214.7
Total Sanitary Tissue Stock	3,746.2	3,771.8	3,823.2 RS	3,772.1	3,954.7	4,069.6	4,017.3
Bathroom Tissue	1,398.7	1,440.5	1,466.1 RS	1,520.1	1,608.9	1,660.2	1,643.2
Facial Tissue Stock	367.2	361.8	356.9 RS	339.8	335.1	336.0	329.0
Napkin Stock	419.3	447.7	442.5 RS	462.1	455.2	491.9	493.1
Towelling	1,249.4	1,276.4	1,333.2 RS	1,248.5	1,323.2	1,353.4	1,317.6
Wiper Stock	59.4	61.3	45.3 RS	37.0	46.4	43.8	44.8
Other Sanitary Tissue	252.2	184.1	179.2 RS	164.6	185.9	184.3	189.6
Total All Other Tissue	230.5	267.0	263.2 RS	207.5	228.9	216.0	197.4

RS - Revised series using AF&PA data. # - Basis weight change from 32 lb. to 30 lb.
(C): Current Industrial Reports, Pulp, Paper and Board. @ - Data overstated by about 10% based on 1980 revision of 1979 data.
** Formerly referred to as Glassine, Greaseproof and Vegetable Parchment.

TABLE II (Cont.)
TOTAL PAPER SHIPMENTS
1965 - 1993
(Thousands of Tons)

	1979	1980	1981		1982	1983	1984	1985
TOTAL PAPER, ALL GRADES	29,666.2	30,116.3	30,900.8		30,245.0	32,802.5	34,446.4	34,061.1
Newsprint Production	4,061.9	4,672.3	5,238.6		5,041.9	5,166.5	5,539.1	5,427.7
Total Printing-Writing Papers	15,297.4	15,522.0	15,694.3		15,574.9	17,364.7	18,420.0	18,463.0
Uncoated Groundwood	1,509.0	1,498.8	1,471.1		1,470.8	1,530.8	1,565.3	1,520.9
Publishing and Printing	1,186.0	1,178.2	1,113.1		1,123.1	1,187.9	1,252.2	1,229.8
Converting	323.0	320.6	358.0		347.7	342.9	313.1	291.1
Coated Papers	4,472.3	4,621.6	4,892.7		4,991.0	5,715.8	6,248.9	5,875.1
Coated Groundwood	N.A.	2,664.7	2,778.8		2,950.2	3,340.6	3,650.1	3,393.4
Coated Free Sheet	N.A.	1,956.9	2,113.9		2,040.8	2,375.2	2,598.8	2,481.7
Uncoated Free Sheet Papers	7,817.1	7,984.2	7,867.4		7,809.3	8,725.7	9,152.0	9,689.9
Bond and Writing	1,578.3	1,789.7	1,694.0		1,763.5	2,057.3	2,114.8	2,288.5
Form Bond	1,449.3	1,491.6	1,580.3		1,510.4	1,687.5	1,829.4	1,921.8
Ledger, Mimeograph and Manifold	154.4	151.1	129.4		105.0	110.2	100.5	96.4
Duplicating	153.3	173.6	147.6		139.8	132.1	117.4	101.9
Papeterie and Wedding	56.4	46.2	45.6		42.0	38.7	42.8	41.4
Carbonless 1/	300.0	338.8	375.2		378.7	400.0	443.4	495.8
Cover and Text Papers	243.1	238.2	243.0		235.1	276.0	299.2	288.9
M.F., E.F. & Super Calendered	85.9	78.7	77.3		68.7	87.5	79.2	77.4
Offset	2,155.2	2,071.2	2,018.5		2,017.6	2,209.8	2,396.4	2,469.1
White Wove Envelope	634.9	649.9	638.3		638.7	715.1	773.7	789.3
Tablet	320.1	323.1	316.9		345.3	406.1	299.2	443.2
Kraft Envelope Papers: Total	234.4	226.2	221.5		207.8	230.7	237.4	234.7
Brown Kraft - Estimated	115.6	111.7	111.0		102.2	114.2	113.8	125.4
Bleached Kraft - Estimated	118.8	114.5	110.5		105.6	116.5	123.6	109.3
Other	451.8	405.9	379.8		351.7	374.7	418.6	441.5
Thin Papers	371.4	333.0	353.4		297.0	292.4	303.4	263.0
Cotton Fiber Papers	124.6	126.3	125.6		120.2	132.7	147.2	144.1
Bond and Writing	93.1	95.2	95.3		94.8	105.9	119.4	117.4
Other Business	16.6	14.1	13.7		11.0	10.6	8.8	8.7
Technical and Other	14.9	17.0	16.6		14.4	16.2	19.0	18.0
Bleached Bristols	1,003.0	958.1	984.1		886.6	967.3	1,003.2	970.0
Tabulating Index	217.0	202.3	152.8		123.2	106.7	67.6	70.0
Tag	208.7	177.7	194.3		168.9	190.9	196.7	177.8
File Folder	127.6	114.0	127.0		121.1	144.8	140.9	165.8
Index Bristol	137.9	147.0	143.4		133.4	140.9	146.5	146.5
Printing Bristol	53.0	52.1	51.1		49.6	55.4	56.6	57.4
Postcard	0.2	0.4	1.4		2.4	1.9	2.8	3.2
Coated Bristol	258.6	264.6	314.1		288.0	326.7	392.1	349.3
Total Packaging and Industrial Papers	5,786.4	5,483.5	5,450.4		5,190.6	5,482.7	5,567.0	5,229.9
Kraft & Specialty Pkg. **	5,196.8	4,961.0	4,396.8	RS/2	4,234.0	4,442.5	4,474.7	4,187.4
Unbleached Kraft Papers	3,931.0	3,815.8	3,569.1	RS/2	3,412.5	3,505.4 3/	3,519.5	3,246.1
Wrapping	149.6	115.7	99.1	RS/2	86.3	93.2	90.5	86.0
Bag and Sack (Exc. Shipping Sack)	2,225.8	2,269.4	2,207.9	RS/2	2,209.7	2,287.5	2,290.9	2,115.3
Shipping Sack	1,085.8	1,033.3	1,014.6	RS/2	895.1	878.9	883.3	796.8
Other Converting	469.8	397.4	247.5	RS/2	221.4	245.8	254.8	248.0
Bleached Packaging Papers (C)	1,031.9	943.5	375.8	RS/2	381.6	429.3	454.2	437.0
Wrapping	118.9	102.6	33.1	RS/2	31.3	31.1	26.9	21.5
Bag and Sack (Exc. Shipping Sack)	250.4	228.6	212.0	RS/2	217.5	235.6	254.2	261.5
Shipping Sack	102.4	92.0	73.9	RS/2	77.9	88.5	90.1	80.3
Other Converting	560.2	520.3	56.7	RS/2	54.9	74.1	83.0	73.7
Specialty Packaging (C) **	233.9	201.7	451.9		439.9	507.8	501.0	504.3
Special Industrial Papers (C)	589.6	522.5	1,053.6	RS	956.6	1,040.2	1,092.3	1,042.5
Total Tissue Papers	4,520.5	4,438.5	4,517.5		4,437.6	4,788.6	4,920.6	4,940.5
Total Sanitary Tissue Stock	4,324.5	4,284.6	4,366.8		4,289.3	4,611.2	4,760.6	4,797.5
Bathroom Tissue	1,742.4	1,685.0	1,714.0		1,748.2	1,835.2	1,851.6	1,882.4
Facial Tissue Stock	357.9	360.4	369.4		359.3	389.3	378.5	353.8
Napkin Stock	537.2	561.8	577.6		606.1	532.6	569.8	579.0
Towelling	1,404.0	1,392.4	1,415.3		1,334.1	1,577.2	1,670.8	1,700.4
Wiper Stock	58.8	58.0	77.5		50.8	N.A.	N.A.	N.A.
Other Sanitary Tissue	224.2	227.0	213.0		190.8	276.9	289.9	281.9
Total All Other Tissue	196.0	153.9	150.7		148.3	177.4	160.0	143.0

(C): Current Industrial Reports, Pulp, Paper and Board RS - Revised Series
1/ Includes base stock. 2/ AF&PA data. NA - Not Available.
3/ Data after 1983 may not be fully comparable due to changes in procedures in calculating the total industry shipments.
** Formerly referred to as Glassine, Greaseproof and Vegetable Parchment

TABLE II (Cont'd.)
TOTAL PAPER SHIPMENTS
1965-1993
(Thousands of Tons)

	1986	1987	1988	1989		1990	1991		1992 R	1993 P
TOTAL PAPER, ALL GRADES	35,549.7	36,919.4	38,352.6	38,266.4		39,361.0	39,083.6		40,972.9	41,744.5
Newsprint Production	5,629.4	5,842.2	5,982.2	6,088.0		6,610.5	6,840.9		7,081.4	7,067.5
Total Printing-Writing Papers	19,678.0	20,800.0	21,860.0	21,624.7		22,370.4	22,063.5		23,394.4	24,061.7
Uncoated Groundwood	1,539.6	1,498.2	1,623.6	1,742.7		1,805.8	1,716.0		1,608.7	1,798.7
Publishing and Printing	1,212.9	1,197.7	1,373.7	553.8	NS1	591.3	570.9		537.8	585.4
Converting	326.7	300.5	249.9	1,188.9	NS2	1,214.5	1,145.1		1,071.0	1,213.4
Coated Papers	6,262.7	6,859.6	7,359.0	7,215.4		7,535.9	7,358.3		8,119.1	8,276.3
Coated Groundwood	3,506.5	3,811.1	4,204.2	4,058.7		4,233.2	4,039.7		4,364.3	4,339.6
Coated Free Sheet	2,756.2	3,048.5	3,154.8	3,156.7		3,302.7	3,318.6		3,754.7	3,936.7
Uncoated Free Sheet Papers	10,409.5	10,965.8	11,277.0	11,080.7		11,503.2	11,504.3		12,170.4	12,355.0
Bond and Writing	2,496.9	2,766.1	2,953.1	2,981.3		3,154.2	3,403.9	NS3	3,565.1	3,649.4
Form Bond	2,150.6	2,157.4	2,127.3	2,112.2		2,030.1	2,111.3		2,079.0	1,903.3
Ledger, Mimeograph and Manifold	97.9	87.4	71.1	78.1		69.8	51.9	NS3	47.9	39.4
Duplicating	78.4	61.3	45.0	35.3		25.0	N.A.	NS3	N.A.	N.A.
Papeterie and Wedding	43.1	40.5	39.8	45.5		57.5	56.3		54.7	54.9
Carbonless 1/	541.3	599.2	684.4	701.7		734.8	675.9		789.2	809.1
Cover and Text Papers	310.0	329.1	348.6	441.8	NC	466.3	430.0		470.5	481.5
M.F., E.F. & Super Calendered	83.5	74.5	86.0	83.1		95.4	78.9		83.8	64.1
Offset	2,633.6	2,818.5	2,917.9	2,627.6	NC	2,756.8	2,634.2		2,823.4	3,062.3
White Wove Envelope	867.1	916.2	942.5	923.1		992.7	941.1		1,015.5	1,062.3
Tablet	411.5	424.5	378.6	367.2		400.9	439.9		505.3	460.2
Kraft Envelope Papers: Total	254.1	255.9	268.9	233.9		249.3	218.4		216.3	220.0
Brown Kraft - Estimated	132.5	131.8	144.3	127.8		136.7	116.7		118.1	121.1
Bleached Kraft - Estimated	121.6	124.1	124.6	106.1		112.6	101.7		98.1	98.8
Other	441.5	435.2	413.8	449.9		470.3	462.5		519.7	548.6
Thin Papers	270.7	262.0	281.0	262.0		217.7	196.7		174.9	168.7
Cotton Fiber Papers	152.0	162.8	169.3	160.8		155.4	142.4		158.7	160.0
Bond and Writing	125.4	136.1	140.2	131.1		129.9	120.2		135.2	136.6
Other Business	7.2	7.3	7.4	6.5		4.7	4.7		6.4	6.5
Technical and Other	19.4	19.4	21.7	23.2		20.7	17.5		17.1	16.9
Bleached Bristols	1,043.5	1,051.6	1,150.1	1,163.1		1,152.5	1,145.8		1,162.6	1,302.9
Tabulating Index	60.0	50.0	40.0	35.0		30.9	23.3		*	*
Tag	186.6	184.1	185.7	175.2		155.8	162.1		165.5	171.7
File Folder	179.8	194.2	213.5	221.1		221.5	214.9		244.3	253.9
Index Bristol	147.7	144.2	152.7	145.6		141.0	125.0		155.6 *	156.5
Printing Bristol	59.7	62.6	67.4	67.1		70.2	70.7		73.5	86.6
Postcard	5.8	5.4	3.2	5.3		6.1	17.4		20.5	53.2
Coated Bristol	403.9	411.1	487.6	513.8		527.1	532.4		503.3	581.0
Total Packaging and Industrial Papers	5,147.4	4,976.5	5,034.3	4,917.3		4,577.7	4,510.6		4,712.9	4,607.6
Kraft & Specialty Pkg. **	4,061.3	3,794.4	3,823.2	3,669.7		3,425.0	3,338.7		3,469.1	3,303.4
Unbleached Kraft Papers	3,115.5	2,839.8	2,801.0	2,682.1		2,377.3	2,280.2		2,379.8	2,259.3
Wrapping	89.0	79.9	83.3	97.3		75.5	56.1		62.3	56.5
Bag and Sack (Exc. Shipping Sack)	2,048.4	1,763.6	1,684.6	1,658.5		1,358.4	1,318.2		1,352.1	1,269.8
Shipping Sack	747.4	784.3	840.4	772.2		770.2	739.8		760.6	729.9
Other Converting	230.7	212.0	192.7	154.1		173.2	166.1		204.8	203.1
Bleached Packaging Papers	435.6	409.3	465.2	468.0		484.3	421.4		402.7	400.3
Wrapping	16.1	17.8	24.1	28.2		41.2	21.7		20.7	20.7
Bag and Sack (Exc. Shipping Sack)	259.2	237.9	261.5	256.0		230.5	174.0		163.3	167.4
Shipping Sack	84.4	98.3	110.7	102.0		112.1	100.3		108.0	107.3
Other Converting	75.9	55.3	68.9	81.8		100.5	125.4		110.7	104.9
Specialty Packaging **	510.2	545.3	557.0	519.6		563.4	637.1		686.6	643.8
Special Industrial Papers	1,086.1	1,182.1	1,211.1	1,247.6		1,152.6	1,171.9		1,243.8	1,304.2
Total Tissue Papers	5,094.9	5,300.7	5,476.1	5,636.4		5,802.4	5,668.6		5,784.2	6,007.7
Total Sanitary Tissue Stock	4,943.7	5,136.9	5,282.4	5,442.1		5,627.6	5,528.5		5,652.1	5,881.4
Bathroom Tissue	1,905.6	1,930.1	2,032.3	2,151.7		2,278.0	2,343.4		2,382.0	2,480.6
Facial Tissue Stock	359.1	345.1	351.4	353.6		344.3	345.5		341.7	352.7
Napkin Stock	613.8	668.0	697.4	693.2		692.0	745.9		776.5	821.4
Towelling	1,768.1	1,850.1	1,863.3	1,901.9		1,986.5	1,826.9		1,882.7	1,959.8
Wiper Stock	N.A.	N.A.	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Other Sanitary Tissue	297.1	343.6	338.0	341.7		326.7	266.8		269.2	266.9
Total All Other Tissue	151.3	163.8	193.7	194.3		174.8	140.2		132.2	126.3

R - Revised. P - Preliminary. NA - Not Available. 1/ Includes base stock.
NS1-New Series 1989-Supercalendered (1988-464.7). NS2-New Series 1989-Other (1988-1,158.9).
NS3-Mimeo and Duplicating included in Bond and Writing. * Tabulating index included in index bristol.
** Formerly referred to as Glassine, Greaseproof and Vegetable Parchment NC-Not Comparable to earlier data due to grade changes.

TABLE III

PAPERBOARD PRODUCTION 1955-1993

BY END USE

THOUSAND TONS	PAPERBOARD	CONTAINERBOARD-DOMESTIC USE			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Chip and Filler Board
1955	14,043.7	7,244.2	4,789.6	2,165.4	289.2
1956	14,371.6	7,451.3	4,933.4	2,249.5	268.4
1957	14,181.9	7,337.2	4,869.7	2,215.6	251.9
1958	14,237.0	7,259.2	4,818.9	2,191.3	249.0
1959	15,972.0	8,232.0	5,475.4	2,498.8	257.8
1960	15,926.5	8,186.6	5,474.8	2,461.0	250.8
1961	16,727.3	8,661.3	5,753.9	2,649.3	258.1
1962	17,847.4	9,299.0	6,216.5	2,822.1	260.4
1963	18,593.6	9,638.3	6,414.0	2,961.8	262.5
1964	19,953.8	10,341.9	6,907.5	3,165.1	269.3
1965	21,331.5	11,199.1	7,480.6	3,438.2	280.3
1966	23,178.6	12,459.6	8,347.3	3,799.8	312.5
1967	22,819.3	12,248.6	8,215.6	3,743.5	289.5
1968	24,903.6	13,388.4	9,043.7	4,061.9	282.8
1969	26,375.7	14,396.4	9,692.5	4,395.4	308.6
1970 RS	25,367.5	13,756.6	9,403.1	4,264.0	89.5 *
1971	26,019.1	14,125.5	9,530.8	4,519.7	75.0
1972	28,483.3	15,772.3	10,856.5	4,846.6	69.2
1973	29,548.9	16,689.7	11,355.8	5,255.1	78.8
1974	28,893.6	16,552.3	11,305.5	5,179.3	67.5
1975	24,736.3	14,354.3	9,854.3	4,449.3	50.7
1976	28,415.6	16,493.1	11,375.9	5,061.4	55.8
1977	28,934.7	16,951.3	11,695.8	5,207.9	47.6
1978	30,251.1	17,687.0	12,133.7	5,503.1	50.2
1979	31,404.1	18,649.6	12,819.6	5,775.9	54.1
1980	30,925.9	17,886.7	12,393.1	5,445.6	48.0
1981	31,208.3	18,811.7	13,078.5	5,702.0	31.2
1982	29,044.7	17,309.8	11,935.5	5,341.8	32.5
1983	32,145.7	19,000.6	13,124.7	5,838.1	37.8
1984	34,002.1	20,716.4	14,272.5	6,404.2	39.7
1985	32,921.8	20,042.2	13,752.9	6,255.4	33.9
1986	35,355.4	21,443.3	14,725.8	6,686.6	30.9
1987	37,442.0	23,047.1	15,992.7	7,016.9	37.5
1988	38,234.1 R	23,563.2 R	16,177.3	7,350.9 R	35.0
1989	38,519.3 R	23,751.8	16,399.3	7,338.7	13.8
1990	39,422.7 R	24,431.6	16,875.4	7,549.2	7.0
1991	40,416.2 R	24,484.2	17,005.7	7,478.5	**
1992	41,985.0 R	25,762.5 R	17,784.8	7,977.7 R	**
1993	43,212.7	26,408.5	18,235.2	8,173.3	**

* - Reclassification: balance of chip board (non-containerboard grades) included in "All Other."
** - Containerboard content of Chip and Filler Board included in Corrugating Material.
RS - Revised Series. R - Revised.

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1993

BY END USE

THOUSAND TONS	BOXBOARD-DOMESTIC USE				ALL OTHER
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407.4	2,938.8	636.7	831.9	2,392.1
1956	4,530.3	2,970.9	636.7	922.7	2,390.0
1957	4,513.4	3,020.8	568.2	924.4	2,331.3
1958	4,533.3	3,032.5	538.6	962.2	2,444.5
1959	4,911.4	3,285.9	576.1	1,049.4	2,828.6
1960	4,894.9	3,291.2	525.1	1,078.6	2,845.0
1961	5,007.5	3,374.8	496.8	1,135.9	3,058.5
1962	5,265.2	3,501.8	523.8	1,239.6	3,283.2
1963	5,417.2	3,635.8	526.8	1,254.6	3,538.1
1964	5,560.8	3,752.3	534.0	1,294.5	4,031.1
1965	5,811.2	3,879.6	547.3	1,384.3	4,321.2
1966	6,075.9	4,040.3	559.7	1,475.9	4,643.1
1967	5,973.1	4,020.7	496.1	1,456.3	4,597.6
1968	6,334.0	4,218.3	519.5	1,596.2	5,181.2
1969	6,424.8	4,261.6	498.6	1,664.6	5,554.5
1970 RS	6,303.1	4,144.1	466.5	1,692.5	5,307.8 *
1971	6,195.7	4,101.4	448.0	1,646.3	5,697.9
1972	6,531.6	4,420.5	455.1	1,656.0	6,179.4
1973	6,741.8	4,682.1	465.3	1,594.4	6,117.4
1974	6,377.7	4,405.2	403.6	1,568.9	5,963.6
1975	5,644.6	3,877.2	304.5	1,462.9	4,737.4
1976	6,540.8	4,690.9	331.4	1,518.5	5,381.7
1977	6,313.9	4,528.3	302.5	1,483.1	5,669.5
1978	6,457.4	4,678.5	332.7	1,446.2	6,106.7
1979	6,443.8	4,695.1	306.0	1,442.7	6,310.7
1980	6,126.6	4,463.5	241.5	1,421.6	6,912.6
1981	6,192.5	4,563.9	236.0	1,392.6	6,204.1
1982	5,820.2	4,313.0	223.6	1,283.6	5,915.1
1983	6,230.1	4,615.1	256.3	1,358.7	6,915.8
1984	6,498.6	4,839.0	263.8	1,395.8	6,788.1
1985	6,412.8	4,805.1	226.6	1,381.1	6,466.8
1986	6,671.1	5,056.5	219.3	1,395.3	7,241.0
1987	6,874.1	5,209.7	242.5	1,421.9	7,520.8
1988	7,008.1 R	5,286.7 R	278.7	1,442.7 R	7,662.8 R
1989	7,061.8 R	5,355.4 R	287.8	1,418.6	7,705.7 R
1990	6,920.1 R	5,166.8 R	289.8 R	1,463.5 R	8,071.0 R
1991	7,278.8 R	5,522.3 R	274.7	1,481.8 R	8,653.2 R
1992	7,338.5 R	5,519.7 R	282.5	1,536.3 R	8,884.0 R
1993	7,768.4	5,863.2	322.5	1,582.7	9,035.8

* - Reclassification: balance of chip board (non-containerboard grades) included in "All Other."
RS - Revised Series R - Revised.

TABLE IV

CONTAINERBOARD PRODUCTION 1955 - 1993

FOR DOMESTIC USE

THOUSAND TONS	CONTAINERBOARD	LINERBOARD		
YEAR	TOTAL	Total	Kraft	Recycled
1955	7,244.2	4,789.6	3,947.4	842.2
1956	7,451.3	4,933.4	4,139.6	793.8
1957	7,337.2	4,869.7	4,097.9	771.8
1958	7,259.2	4,818.9	4,110.2	708.7
1959	8,232.0	5,475.4	4,701.0	774.4
1960	8,186.6	5,474.8	4,731.2	743.6
1961	8,661.3	5,753.9	5,095.7	658.2
1962	9,299.0	6,216.5	5,514.7	701.8
1963	9,638.3	6,414.0	5,706.1	707.9
1964	10,341.9	6,907.5	6,188.0	719.5
1965	11,199.1	7,480.6	6,698.1	782.5
1966	12,459.6	8,347.3	7,550.2	797.1
1967	12,248.6	8,215.6	7,693.3	522.3
1968	13,388.4	9,043.7	8,612.2	431.5
1969	14,396.4	9,692.5	9,345.3	347.2
1970 RS	13,756.6	9,403.1	9,133.4	269.7
1971	14,125.5	9,530.8	9,249.1	281.7
1972	15,772.3	10,856.5	10,577.6	278.9
1973	16,689.7	11,355.8	11,066.8	289.0
1974	16,552.3	11,305.5	10,838.4	467.1
1975	14,354.3	9,854.3	9,647.0	207.3
1976	16,493.1	11,375.9	11,093.2	282.7
1977	16,951.3	11,695.8	11,354.4	341.4
1978	17,687.0	12,133.7	11,877.3	256.4
1979	18,649.6	12,819.6	12,417.3	402.3
1980	17,886.7	12,393.1	11,948.6	444.5
1981	18,811.7	13,078.5	12,754.3	324.2
1982	17,309.4	11,935.5	11,656.5	279.0
1983	18,999.8	13,124.7	12,835.6	289.1
1984	20,715.4	14,272.5	14,068.8	203.7
1985	20,042.2	13,752.9	13,467.1	285.8
1986	21,443.3	14,725.8	14,305.5	420.3
1987	23,047.1	15,992.7	15,514.4	478.3
1988	23,563.2 R	16,177.3	15,770.7	406.6
1989	23,751.8	16,399.3	16,011.1	388.2
1990	24,431.6	16,875.4	16,552.7	322.7
1991	24,484.2	17,005.7	16,383.1	622.6
1992	25,762.5 R	17,784.8	17,000.7	784.1
1993	26,408.5	18,235.2	16,889.6	1,345.6

RS - Revised Series

R - Revised.

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955 - 1993

FOR DOMESTIC USE

THOUSAND TONS	CORRUGATING MATERIAL			CHIP AND FILLER BOARD
YEAR	Total	Semi-Chemical #	Recycled	Total
1955	2,165.4	1,470.2	695.2	289.2
1956	2,249.5	1,551.7	697.8	268.4
1957	2,215.6	1,557.8	657.8	251.9
1958	2,191.3	1,486.2	705.1	249.0
1959	2,498.8	1,786.1	712.7	257.8
1960	2,461.0	1,788.9	672.1	250.8
1961	2,649.3	2,023.5	625.8	258.1
1962	2,822.1	2,188.8	633.3	260.4
1963	2,961.8	2,287.1	674.7	262.5
1964	3,165.1	2,447.4	717.7	269.3
1965	3,438.2	2,638.2	800.0	280.3
1966	3,799.8	2,909.8	890.0	312.5
1967	3,743.5	2,982.1	761.4	289.5
1968	4,061.9	3,371.2	690.7	282.8
1969	4,395.4	3,617.0	778.4	308.6
1970 RS	4,264.0	3,404.7	859.3	89.5 *
1971	4,519.7	3,580.2	939.5	75.0
1972	4,846.6	3,874.3	972.3	69.2
1973	5,255.1	4,126.6	1,128.5	78.8
1974	5,179.3	4,010.3	1,169.0	67.5
1975	4,449.3	3,579.3	870.0	50.7
1976	5,061.4	3,986.4	1,075.0	55.8
1977	5,207.9	4,128.2	1,079.7	47.6
1978	5,503.1	4,305.3	1,197.8	50.2
1979	5,775.9	4,573.6	1,202.3	54.1
1980	5,445.6	4,398.5	1,047.1	48.0
1981	5,702.0	4,561.2	1,140.8	31.2
1982	5,341.8	4,202.5	1,139.3	32.1
1983	5,838.1	4,532.7	1,305.4	37.0
1984	6,404.2	5,018.8	1,385.4	38.7
1985	6,255.4	4,896.6	1,358.8	33.9
1986	6,686.6	5,160.8	1,525.8	30.9
1987	7,016.9	5,343.8	1,673.1	37.5
1988	7,350.9	5,527.7	1,823.2	35.0
1989	7,338.7	5,518.5 R	1,820.2 R	13.8
1990	7,549.2	5,497.4 R	2,051.8 R	7.0
1991	7,478.5	5,381.6 R	2,096.9 R	**
1992	7,977.7 R	5,582.0 R	2,395.7 R	**
1993	8,173.3	5,507.0	2,666.3	**

- Includes a small amount of unbleached kraft for years 1970 - 1976. RS - Revised Series.
* - Reclassification: balance of chip board (non-containerboard grades) included in "All Other."
** - As of 1991, containerboard grades of chip and filler board included in semichemical paperboard.
R - Revised.

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1993

THOUSAND TONS YEAR		Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses *	Linerboard
1960		571.0	745.2	287.4	123.7	136.2	76.0
1961		600.5	797.6	312.9	127.9	146.1	103.5
1962		678.5	865.1	324.4	148.4	139.2	124.2
1963		677.1	943.0	325.3	160.2	153.4	124.2
1964		692.0	988.8	329.2	178.8	182.3	101.1
1965		752.1	1,051.8	339.0	202.1	182.6	75.0
1966		783.2	1,100.7	367.2	232.1	200.4	100.3
1967		772.8	1,133.8	368.6	247.3	171.4	89.5
1968		848.8	1,234.1	412.0	258.9	195.1	104.9
1969		884.6	1,346.0	416.2	282.2	200.9	113.6
1970	RS	940.7	1,327.7	374.2	279.6	198.6	118.8
1971		918.8	1,354.1	366.7	272.9	245.9	124.4
1972		894.4	1,553.5	395.6	313.3	288.6	129.8
1973		871.2	1,705.7	410.4	296.5	348.5	127.7
1974		850.2	1,654.6	415.8	289.6	382.7	99.4
1975		865.8	1,436.3	350.6	233.4	315.8	81.8
1976		822.9	1,773.4	412.3	266.7	402.2	99.5
1977		808.7	1,573.2	401.3	262.4	525.2	85.0
1978		731.2	1,739.5	418.7	287.1	614.9	115.7
1979 **		718.7	1,688.8	432.0	274.1	690.2	110.9
1980		677.6	1,548.3	419.5	298.4	747.2	96.3
1981		631.8	1,631.2	441.7	287.4	749.2	100.6
1982		590.5	1,546.2	374.8	274.5	726.9	93.4
1983		606.9	1,693.7	426.3	281.1	738.7	115.0
1984		632.7	1,809.6	416.4	303.5	700.3	118.5
1985		609.0	1,742.0	438.2	284.0	693.6	113.8
1986		581.4	1,911.3	437.2	322.2	779.6	132.0
1987		619.5	2,002.8	444.1	316.0	843.2	134.3
1988		606.4	2,010.8 R	467.7 R	324.1	883.4 R	169.8 R
1989		565.6	1,965.8 R	452.4	362.1	930.0 R	177.7
1990		616.9	1,786.5 R	480.9 R	316.5	974.8 R	138.9
1991		612.6	1,872.1 R	483.7 R	340.8	1006.5 R	169.8
1992		580.4	1,757.0 R	568.4 R	345.4 R	1004.6 R	150.3
1993		578.2	1,828.1	591.0	384.8	959.0	157.9

* - Includes Exports and "Other Food". R - Revised.
** - Starting in 1979, lightweight cup is included with heavyweight cup. RS - Revised Series.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1993

THOUSAND TONS	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard *	Milk Carton and Food Service	Other Packaging	Total	Total
1960	1,939.5	1,078.6	860.9	119.7	2,059.2
1961	2,088.5	1,135.9	952.6	151.5	2,240.0
1962	2,279.8	1,239.6	1,040.2	173.6	2,453.4
1963	2,383.2	1,254.6	1,128.6	181.8	2,565.0
1964	2,472.2	1,294.5	1,177.7	220.8	2,693.0
1965	2,602.6	1,384.3	1,218.3	244.4	2,847.0
1966	2,783.9	1,475.9	1,308.0	301.4	3,085.3
1967	2,783.4	1,456.3	1,327.1	273.8	3,057.2
1968	3,053.8	1,596.2	1,457.6	314.0	3,367.8
1969	3,243.5	1,664.6	1,578.9	316.4	3,559.9
1970 RS	3,239.6	1,649.0	1,590.6	87.8	3,327.4
1971	3,282.8	1,604.3	1,678.5	80.5	3,363.3
1972	3,575.2	1,623.4	1,951.8	91.9	3,667.1
1973	3,760.0	1,594.3	2,165.7	81.5	3,841.5
1974	3,692.3	1,568.7	2,123.6	59.5	3,751.8
1975	3,283.7	1,462.1	1,821.6	40.3	3,324.0
1976	3,777.0	1,518.4	2,258.6	43.3	3,820.3
1977	3,655.8	1,483.1	2,172.7	47.2	3,703.0
1978	3,907.1	1,446.2	2,460.9	47.7	3,954.8
1979	3,914.7	1,442.7	2,472.0	58.6	3,973.3
1980	3,787.3	1,421.6	2,365.7	48.5	3,835.8
1981	3,841.9	1,392.6	2,449.3	44.2	3,886.1
1982	3,606.3	1,283.6	2,322.7	37.7	3,644.0
1983	3,861.7	1,358.7	2,503.0	33.1	3,894.8
1984	3,981.0	1,395.8	2,585.2	30.2	4,011.2
1985	3,880.6	1,381.1	2,499.5	30.2	3,910.8
1986	4,163.7	1,395.3	2,768.4	43.5	4,207.2
1987	4,359.9	1,421.9	2,938.0	46.4	4,406.3
1988	4,462.2 R	1,442.7 R	3,019.5 R	48.9	4,511.1 R
1989	4,453.6	1,418.6	3,035.0	67.6	4,521.2 R
1990	4,314.5 R	1,463.5 R	2,851.0	84.7 R	4,399.2 R
1991	4,485.5 R	1,481.8 R	3,003.7	86.5 R	4,572.0 R
1992	4,406.1 R	1,536.3 R	2,869.8 R	96.6 R	4,502.7
1993	4,499.0	1,582.7	2,916.3	84.1	4,583.1

* - Includes Exports. RS - Revised Series. R - Revised.

TABLE VI

PAPERBOARD PRODUCTION BY REGION **

1971 - 1993

THOUSAND TONS	PAPERBOARD	CONTAINERBOARD-DOMESTIC USE			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Container Chip & Filler Board
NORTH EASTERN					
1971	2,525.3	634.8	54.4	551.1	29.3
1972	2,622.7	645.8	54.7	562.3	28.8
1973	2,733.9	725.3	56.9	615.3	53.1
1974	2,677.5	852.1	152.7	642.0	57.4
1975	2,052.1	536.4	35.2	445.4	55.8
1976	2,255.2	566.2	70.8	448.2	47.2
1977	2,247.3	562.9	70.8	446.6	45.5
1978	2,284.4	561.3	37.4	470.2	53.7
1979	2,259.8	564.2	61.4	456.7	46.1
1980	2,042.7	486.9	27.3	415.2	44.4
1981	1,867.7	369.9	-	328.5	41.4
1982	1,651.9	342.8	10.8	295.6	36.4
1983	1,891.1	380.3	45.6	317.8	16.9
1984	1,835.3	362.4	-	346.0	16.4
1985	1,828.1	333.3	-	327.3	6.0 RS
1986	1,929.8	375.7	-	369.3	6.4
1987	1,997.5	391.0	0.3	375.6	15.1
1988	2,066.6	422.5	15.4	398.6	8.5
1989	2,018.0	402.8	7.8	386.5	8.5
1990	1,930.9	372.1	4.7	367.4	-
1991	2,085.6	482.4	1.4	481.0	*
1992	2,290.3	511.4	-	511.4	*
1993	2,553.4	582.5	-	582.5	*
SOUTHERN					
1971	15,764.5	9,330.7	7,507.6	1,789.6	33.5
1972	17,464.8	10,671.2	8,658.6	1,988.1	24.5
1973	18,157.0	11,256.8	9,083.5	2,159.0	14.3
1974	17,857.1	11,006.8	8,883.3	2,111.0	12.5
1975	15,733.1	9,882.1	7,957.7	1,860.9	63.4
1976	18,097.2	11,400.7	9,178.2	2,181.4	41.1
1977	18,204.3	11,541.0	9,299.0	2,199.4	42.6
1978	19,516.2	12,268.7	9,890.2	2,331.5	47.0
1979	20,194.2	12,692.1	10,280.6	2,376.9	34.6
1980	20,165.8	12,120.0	9,897.6	2,196.4	26.0
1981	20,418.2	12,863.0	10,527.9	2,300.9	34.2
1982	19,221.8	11,872.3	9,682.3	2,157.3	32.7
1983	20,899.3	12,864.3	10,546.5	2,280.5	37.3
1984	22,238.1	14,143.6	11,536.9	2,568.1	38.6
1985	21,389.7	13,606.5	11,068.8	2,536.2	1.5 RS
1986	22,939.8	14,364.3	11,693.4	2,668.5	2.4
1987	24,484.8	15,663.7	12,811.7	2,852.0	-
1988	25,063.1	16,035.3	12,969.1	3,066.2	-
1989	23,987.9	16,312.4	13,236.0	3,076.4	-
1990	26,634.7	16,863.3	13,750.8	3,112.5	-
1991	27,055.5	17,066.8	13,887.2	3,179.6	*
1992	27,868.6 R	17,805.6 R	14,448.8	3,356.8 R	*
1993	28,600.2	18,331.5	14,871.2	3,460.3	*

NOTES:

RS - Revised Series: balance of chip board (non-containerboard grades) included in "All Other".
* As of 1991, containerboard grades of chip and filler board are included in corrugating medium.
** In certain cases, data revisions made at national level are not reflected in regional breakouts for years prior to 1988.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION **

1971 - 1993

THOUSAND TONS	BOXBOARD-DOMESTIC USE				ALL OTHER ***
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1971	1,003.9	767.1	178.2	60.6	886.6
1972	1,020.8	788.4	181.3	51.1	956.1
1973	961.9	752.2	181.0	28.7	1,046.7
1974	861.6	679.8	154.2	27.6	963.8
1975	724.5	582.0	116.5	26.0	791.2
1976	841.1	690.8	120.9	29.4	847.9
1977	865.1	735.4	102.5	27.2	819.3
1978	861.1	723.3	112.7	25.0	862.1
1979	840.9	721.9	85.5	33.5	854.7
1980	787.8	680.4	72.3	35.1	768.0
1981	780.1	687.9	63.4	28.8	717.7
1982	678.1	593.3	59.4	25.4	631.0
1983	730.9	631.0	74.1	25.8	779.9
1984	710.1	614.2	71.2	24.7	762.8
1985	673.8	587.0	65.2	21.6	821.0 RS
1986	703.7	649.6	54.1	-	850.4
1987	758.5	686.9	71.6	-	848.0
1988	781.3	695.3	86.0	-	862.8
1989	810.1	724.8	85.3	-	805.1
1990	702.7	607.2	95.5	-	856.1
1991	791.9	716.1	75.8	-	811.3
1992	890.9	812.7	78.2	-	888.0
1993	1,035.2	940.6	94.6	-	935.7
SOUTHERN					
1971	2,943.0	1,407.0	105.5	1,430.5	3,490.8
1972	3,110.0	1,555.0	108.4	1,446.6	3,683.6
1973	3,299.1	1,767.2	118.0	1,413.9	3,601.1
1974	3,169.1	1,677.3	104.9	1,386.9	3,681.2
1975	2,870.4	1,517.8	89.6	1,263.0	2,980.6
1976	3,329.8	1,899.5	99.7	1,330.6	3,366.7
1977	3,094.3	1,710.4	96.6	1,287.3	3,569.0
1978	3,278.4	1,892.7	104.5	1,281.2	3,969.1
1979	3,250.8	1,869.5	104.5	1,276.8	4,251.3
1980	3,123.3	1,768.8	100.3	1,254.2	4,922.5
1981	3,177.3	1,839.2	105.4	1,232.7	4,377.9
1982	2,991.9	1,740.5	94.5	1,156.9	4,357.6
1983	3,233.5	1,927.0	98.8	1,207.7	4,801.5
1984	3,392.8	2,046.0	107.3	1,239.5	4,701.7
1985	3,294.9	1,990.1	86.4	1,218.4	4,488.3 RS
1986	3,483.4	2,118.4	94.4	1,270.6	5,092.1
1987	3,578.3	2,210.0	93.2	1,275.1	5,246.0
1988	4,508.7 R	3,138.8 R	105.5	1,264.4	4,519.1 R
1989	4,534.9 R	3,116.3 R	112.3	1,306.3	3,140.6 R
1990	4,304.5 R	2,904.5 R	91.1	1,308.9 R	5,466.9 R
1991	4,575.1 R	3,183.1 R	92.9	1,299.1 R	5,413.6 R
1992	4,577.0 R	3,101.5 R	103.7	1,371.8 R	5,486.0 R
1993	4,771.5	3,248.7	102.9	1,419.9	5,497.2

NOTES: *** Exports are included in "All Other". ** In certain cases, data revisions made at national level are not reflected in the regional breakouts for years prior to 1988.
For this table, unbleached kraft folding has been included with the Folding domestic data.
RS - Revised Series: balance of chip board (non-containerboard grades) included in "All Other".

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION **

1971 - 1993

THOUSAND TONS	PAPERBOARD	CONTAINERBOARD-DOMESTIC USE				
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	
NORTH CENTRAL						
1971	4,041.1	1,854.0	101.8	1,534.1	218.1	
1972	4,245.5	1,926.0	106.4	1,597.4	222.2	
1973	4,360.5	2,031.9	111.0	1,697.3	223.6	
1974	4,186.5	2,005.7	176.6	1,637.9	191.2	
1975	3,367.2	1,655.4	63.9	1,448.6	142.9	
1976	3,927.9	1,869.8	57.0	1,663.9	148.9	
1977	4,091.7	2,010.3	117.2	1,734.3	158.8	
1978	4,164.2	2,127.5	98.6	1,870.4	158.5	
1979	4,352.9	2,334.9	165.8	2,029.3	139.8	
1980	4,137.7	2,271.1	191.4	1,943.5	136.1	
1981	4,288.2	2,416.9	143.3	2,124.8	148.8	
1982	3,979.3	2,210.0	103.9	1,984.3	121.8	
1983	4,396.7	2,413.3	60.8	2,227.0	125.5	
1984	4,770.4	2,600.9	75.3	2,409.6	116.0	
1985	4,565.3	2,441.2	86.8	2,333.4	21.0	RS
1986	4,898.3	2,648.7	73.2	2,555.9	19.6	
1987	5,042.9	2,716.5	72.4	2,623.9	20.2	
1988	5,136.4	2,778.0	63.5	2,690.5	24.0	
1989	6,572.8	2,730.3	42.9	2,685.0	2.4	
1990	5,132.8	2,881.7	44.2	2,833.4	7.1	
1991	5,257.0 R	2,798.6	173.4	2,625.2	*	
1992	5,536.7	3,067.7	206.7	2,861.0	*	
1993	5,864.4	3,101.9	235.3	2,866.6	*	
PACIFIC COAST						
1971	3,688.2	2,533.5	1,867.0	644.9	21.6	
1972	4,150.3	2,776.0	2,036.8	698.8	40.4	
1973	4,297.5	2,914.0	2,104.4	783.5	26.1	
1974	4,172.5	2,902.4	2,092.9	788.3	21.2	
1975	3,583.9	2,512.3	1,797.4	694.4	20.5	
1976	4,135.3	2,863.5	2,069.9	768.0	25.6	
1977	4,391.4	3,053.2	2,208.8	827.6	16.8	
1978	4,286.3	2,950.8	2,107.5	831.0	12.3	
1979	4,597.2	3,233.6	2,311.8	913.0	8.0	
1980	4,579.7	3,192.3	2,276.8	890.5	25.0	
1981	4,634.2	3,390.2	2,407.3	947.8	35.1	
1982	4,191.7	3,082.4	2,138.5	904.6	39.3	
1983	4,958.6	3,515.1	2,471.8	1,012.8	30.5	
1984	5,158.3	3,748.2	2,660.3	1,080.5	7.4	
1985	5,138.7	3,661.2	2,597.3	1,058.5	5.4	RS
1986	5,587.8	4,054.9	2,959.5	1,092.9	2.5	
1987	5,913.6	4,275.9	3,108.3	1,165.4	2.2	
1988	5,968.2	4,327.4	3,129.3	1,195.6	2.5	
1989	5,940.9	4,306.2	3,112.5	1,191.2	2.5	
1990	5,724.6	4,314.5	3,078.6	1,235.9	-	
1991	6,018.3	4,136.9	2,944.1	1,192.8	*	
1992	6,283.2	4,377.3	3,128.8	1,248.5	*	
1993	6,194.6	4,392.6	3,128.7	1,263.9	*	

NOTES:

RS - Revised Series: balance of chip board (non-containerboard grades) included in "All Other".
* As of 1991, containerboard grades of chip and filler board are included in corrugating medium.
** In certain cases, data revisions made at national level are not reflected in regional breakouts for years prior to 1988.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION **

1971 - 1993

THOUSAND TONS	BOXBOARD-DOMESTIC USE				ALL OTHER ***	
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total	
NORTH CENTRAL						
1971	1,345.5	1,195.8	140.9	8.8	841.6	
1972	1,396.3	1,246.0	141.8	8.5	923.2	
1973	1,379.4	1,236.3	142.7	0.4	949.2	
1974	1,262.3	1,137.6	124.6	0.1	918.5	
1975	1,018.4	937.2	80.6	0.6	693.4	
1976	1,177.9	1,089.8	88.0	0.1	880.2	
1977	1,165.2	1,077.5	87.7	-	916.2	
1978	1,123.9	1,031.8	92.1	-	912.8	
1979	1,105.5	1,009.7	95.8	-	912.5	
1980	1,030.7	978.2	52.5	-	835.9	
1981	1,062.3	1,011.8	50.5	-	809.0	
1982	1,035.1	984.2	50.9	-	734.2	
1983	1,112.1	1,049.8	62.3	-	871.3	
1984	1,176.0	1,104.9	71.1	-	993.5	
1985	1,154.9	1,090.1	64.8	-	969.2	RS
1986	1,131.1	1,064.4	66.7	-	1,118.5	
1987	1,182.7	1,110.0	72.7	-	1,143.7	
1988	1,178.0	1,094.3	83.7	-	1,180.4	
1989	1,188.5	1,116.1	72.4	-	2,654.0	
1990	1,338.7	1,257.0	81.7	-	912.4	
1991	1,306.2	1,229.7	76.5	-	1,152.2	
1992	1,299.4	1,222.6	76.8	-	1,169.6	
1993	1,397.3	1,303.4	93.9	-	1,365.2	
PACIFIC COAST						
1971	563.7	391.9	25.4	146.4	591.0	
1972	614.7	441.3	23.6	149.8	759.6	
1973	646.6	471.6	23.6	151.4	736.9	
1974	615.0	440.8	19.9	154.3	655.1	
1975	568.3	377.2	17.8	173.3	503.3	
1976	614.5	433.3	22.8	158.4	657.3	
1977	601.4	417.1	15.7	168.6	736.8	
1978	576.5	413.1	23.4	140.0	759.0	
1979	548.8	396.2	20.2	132.4	814.8	
1980	504.4	355.7	16.4	132.3	883.0	
1981	500.9	353.1	16.7	131.1	743.1	
1982	424.5	304.4	18.8	101.3	684.8	
1983	443.5	297.2	21.1	125.2	1,000.0	
1984	467.3	321.5	14.2	131.6	942.8	
1985	467.5	316.2	10.2	141.1	1,010.0	RS
1986	463.5	334.7	4.1	124.7	1,069.4	
1987	489.7	337.9	5.0	146.8	1,148.0	
1988	540.1	358.3	3.5	178.3	1,100.7	
1989	527.1	398.2	16.6	112.3	1,107.6	
1990	576.4	400.4	21.4	154.6	833.7	
1991	605.7	393.4	29.6	182.7	1,275.7	
1992	570.9	382.6	23.8	164.5	1,335.0	
1993	564.4	370.5	31.1	162.8	1,237.6	

NOTES: *** Exports are included in "All Other". ** In certain cases, data revisions made at national level are not reflected in the regional breakouts for years prior to 1988.
For this table, unbleached kraft folding has been included with the Folding domestic data.
RS - Revised Series: balance of chip board (non-containerboard grades) included in "All Other".

TABLE VII
PAPERBOARD PRODUCTION
BY GRADE AND TYPE 1975 - 1993

THOUSAND TONS	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1975	14,354.3	9,854.3	4,449.3	50.7 /1	5,643.8	3,877.2	304.5
1976	16,493.1	11,375.9	5,061.4	55.8	6,540.7	4,690.9	331.4
1977	16,951.3	11,695.8	5,207.9	47.6	6,314.1	4,528.5	302.5
1978	17,687.0	12,133.7	5,503.1	50.2	6,457.4	4,678.5	332.7
1979	18,649.6	12,819.6	5,775.9	54.1	6,443.8	4,695.1	306.0
1980	17,886.7	12,393.1	5,445.6	48.0	6,126.6	4,463.5	241.5
1981	18,811.7	13,078.5	5,702.0	31.2	6,192.5	4,563.9	236.0
1982	17,309.8	11,935.5	5,341.8	32.5	5,820.2	4,313.0	223.6
1983	19,000.6	13,124.7	5,838.1	37.8	6,230.1	4,615.1	256.3
1984	20,716.4	14,272.5	6,404.2	39.7	6,498.6	4,839.0	263.8
1985	20,042.2	13,752.9	6,255.4	33.9	6,412.8	4,805.1	226.6
1986	21,443.3	14,725.8	6,686.6	30.9	6,671.1	5,056.5	219.3
1987	23,047.1	15,992.7	7,016.9	37.5	6,874.1	5,209.7	242.5
1988	23,563.3	16,177.4	7,350.9	35.0	7,008.1 R	5,286.7 R	278.7
1989	23,751.8	16,399.3	7,338.7	13.8	7,061.8 R	5,355.4 R	287.8
1990	24,431.6	16,875.4	7,549.2	7.0	6,920.1 R	5,166.8 R	289.8 R
1991	24,484.2	17,005.7	7,478.5	- /2	7,278.8 R	5,522.3 R	274.7 R
1992 R	25,762.5	17,784.8	7,977.7 R	-	7,338.2 R	5,519.4 R	282.5 R
1993	26,408.5	18,235.2	8,173.3	-	7,768.4	5,863.2	322.5
Unbleached Kraft							
1975	9,586.0	9,565.2	8.7	12.1	463.0	463.0	-
1976	11,023.9	10,993.7	20.1	10.1	577.5	577.5	-
1977	11,283.0	11,269.4	-	13.6	587.9	587.9	-
1978	11,779.7	11,761.6	-	18.1	617.6	617.6	-
1979	12,306.5	12,306.5	-	-	697.8	697.8	-
1980	11,852.3	11,852.3	-	-	680.4	680.4	-
1981	12,653.7	12,653.7	-	-	671.9	671.9	-
1982	11,563.1	11,563.1	-	-	690.6	690.6	-
1983	12,720.6	12,720.6	-	-	710.1	710.1	-
1984	13,950.3	13,950.3	-	-	752.4	752.4	-
1985	13,353.3	13,353.3	-	-	821.7	821.7	-
1986	14,173.5	14,173.5	-	-	889.4	889.4	-
1987	15,380.1	15,380.1	-	-	864.9	864.9	-
1988	15,601.0	15,601.0	-	-	923.6	923.6	-
1989	15,833.4	15,833.4	-	-	986.7	986.7	-
1990	16,413.8	16,413.8	-	-	970.4	970.4	-
1991	16,213.3	16,213.3	-	-	1,123.9	1,123.9	-
1992	16,850.4	16,850.4	-	-	1,142.6	1,142.6	-
1993	16,731.7	16,731.7	-	-	1,197.3	1,197.3	-
Semichemical							
1975	3,570.6	-	3,570.6	-	-	-	-
1976	3,966.3	-	3,966.3	-	-	-	-
1977	4,128.2	-	4,128.2	-	-	-	-
1978	4,305.3	-	4,305.3	-	-	-	-
1979	4,573.6	-	4,573.6	-	-	-	-
1980	4,398.5	-	4,398.5	-	-	-	-
1981	4,561.2	-	4,561.2	-	-	-	-
1982	4,202.5	-	4,202.5	-	-	-	-
1983	4,532.7	-	4,532.7	-	-	-	-
1984	5,018.8	-	5,018.8	-	-	-	-
1985	4,896.6	-	4,896.6	-	-	-	-
1986	5,160.8	-	5,160.8	-	-	-	-
1987	5,343.8	-	5,343.8	-	-	-	-
1988	5,527.7	-	5,527.7	-	-	-	-
1989 R	5,518.5	-	5,518.5 R	-	-	-	-
1990 R	5,497.4	-	5,497.4 R	-	-	-	-
1991 R	5,381.6	-	5,381.6 R /2	-	-	-	-
1992 R	5,582.0	-	5,582.0 R	-	-	-	-
1993	5,507.0	-	5,507.0 R	-	-	-	-

- Represents zero. /1 - Reclassification: balance of chip board (non-containerboard grades) included in "All Other."
/2 - As of 1991, containerboard grades of chip and filler board are included in corrugating material. R - Revised.

TABLE VII (Cont.)
PAPERBOARD PRODUCTION
BY GRADE AND TYPE 1975 - 1993

THOUSAND TONS	BOXBOARD (Cont.)	ALL OTHER (Excl. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facing	Tube, Can and Drum	Balance of All Other	Total	Total
Total Paperboard							
1975	1,462.1	3,284.9	893.8	907.4	1,483.7 /1	1,453.3	24,736.3
1976	1,518.4	3,672.6	984.5	1,016.6	1,671.5	1,709.2	28,415.6
1977	1,483.1	3,839.1	1,056.8	1,075.9	1,706.4	1,830.4	28,934.7
1978	1,446.2	4,066.8	1,094.0	1,163.0	1,809.8	2,039.9	30,251.1
1979	1,442.7	4,048.1	1,179.9	1,177.2	1,691.0	2,262.6	31,404.2
1980	1,421.6	3,578.2	918.8	1,077.7	1,581.7	3,334.4	30,925.9
1981	1,392.6	3,582.2	887.6	1,114.6	1,580.0	2,621.9	31,208.3
1982	1,283.6	3,261.3	805.2	1,046.2	1,409.9	2,653.8	29,045.1
1983	1,358.7	3,903.8	1,053.8	1,210.8	1,639.2	3,012.0	32,145.7
1984	1,395.8	4,056.8	1,125.2	1,254.8	1,676.8	2,731.3	34,002.1
1985	1,381.1	3,955.5	1,149.4	1,211.4	1,594.7	2,511.3	32,921.8
1986	1,395.3	4,153.0	1,220.1	1,266.3	1,666.6	3,088.0	35,355.4
1987	1,421.9	4,331.2	1,237.0	1,333.9	1,760.3	3,189.6	37,442.0
1988	1,442.7 R	4,526.1 R	1,311.2	1,411.3 R	1,803.6 R	3,136.9 R	38,234.2 R
1989	1,418.6	4,459.2 R	1,281.1	1,453.2 R	1,724.9	3,246.4 R	38,519.4 R
1990	1,463.5 R	4,427.6 R	1,229.6	1,456.3 R	1,741.7 R	3,643.4 R	39,422.7 R
1991	1,481.8 R	4,290.2 R	1,081.4	1,496.7 R	1,712.1 R	4,363.0 R	40,416.2 R
1992R	1,536.3 R	4,498.1 R	1,200.2	1,474.1	1,823.8 R	4,386.2 R	41,985.0 R
1993	1,582.7	4,788.0	1,391.9	1,469.2	1,926.9	4,247.9	43,212.8
Unbleached Kraft							
1975	-	435.9	-	175.9	260.0	1,057.9	11,542.8
1976	-	483.5	-	217.5	266.0	1,247.3	13,332.2
1977	-	490.3	-	227.8	262.5	1,289.6	13,650.8
1978	-	508.9	-	250.6	258.3	1,466.3	14,372.5
1979	-	500.9	-	267.0	233.9	1,645.9	15,151.1
1980	-	382.7	-	226.4	156.3	2,379.9	15,295.3
1981	-	390.2	-	219.2	171.0	1,886.5	15,602.3
1982	-	349.7	-	192.9	156.8	1,931.5	14,534.9
1983	-	410.9	-	204.3	206.6	2,280.7	16,122.3
1984	-	396.3	-	191.5	204.8	2,086.4	17,185.4
1985	-	362.6	-	164.2	198.4	1,830.0	16,367.6
1986	-	380.8	-	164.0	216.8	2,236.6	17,680.3
1987	-	350.1	-	160.6	189.5	2,302.8	18,897.9
1988	-	320.2	-	155.4	164.8	2,295.7	19,140.5
1989	-	307.0	-	149.4	157.6	2,363.0	19,490.1
1990	-	282.4	-	125.3	157.1	2,690.6	20,357.2
1991	-	300.5	-	138.4	162.1	3,322.7	20,960.4
1992	-	344.7	-	124.1	220.6	3,319.9	21,657.6
1993	-	309.3	-	109.3	200.0	3,209.2	21,447.5
Semichemical							
1975	-	15.8	-	13.9	1.9	115.4	3,701.8
1976	-	19.4	-	18.2	1.2	119.3	4,105.0
1977	-	14.3	-	14.3	-	121.9	4,264.4
1978	-	14.8	-	14.6	0.2	119.2	4,439.3
1979	-	17.3	-	10.8	6.5	98.2	4,689.1
1980	-	2.7	-	2.4	0.3	322.3	4,723.5
1981	-	2.8	-	2.7	0.1	155.2	4,719.2
1982	-	1.9	-	1.3	0.6	184.9	4,389.3
1983	-	5.1	-	-	5.1	192.6	4,730.4
1984	-	1.0	-	-	1.0	149.2	5,169.0
1985	-	2.0	-	-	2.0	189.4	5,088.0
1986	-	2.7 R	-	-	2.7 R	212.5	5,376.0
1987	-	-	-	-	-	192.5	5,536.3
1988	-	-	-	-	-	136.3	5,664.0
1989	-	-	-	-	-	137.5	5,656.0 R
1990	-	-	-	-	-	142.5	5,639.9 R
1991	-	-	-	-	-	170.2	5,551.8 R
1992R	-	-	-	-	-	180.1	5,762.1 R
1993	-	-	-	-	-	165.0	5,672.0

- Represents zero. R - Revised.
/1 - Reclassification: balance of chip board (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1975 - 1993

THOUSAND TONS	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1975	81.8	81.8	-	-	2,898.4	1,436.3	-
1976	99.5	99.5	-	-	3,291.8	1,773.4	-
1977	85.0	85.0	-	-	3,056.5	1,573.4	-
1978	115.7	115.7	-	-	3,185.7	1,739.5	-
1979	110.9	110.9	-	-	3,131.5	1,688.8	-
1980	96.3	96.3	-	-	2,969.9	1,548.3	-
1981	100.6	100.6	-	-	3,023.8	1,631.2	-
1982	93.4	93.4	-	-	2,829.8	1,546.2	-
1983	115.0	115.0	-	-	3,052.4	1,693.7	-
1984	118.5	118.5	-	-	3,205.4	1,809.6	-
1985	113.8	113.8	-	-	3,123.1	1,742.0	-
1986	132.0	132.0	-	-	3,306.6	1,911.3	-
1987	134.3	134.3	-	-	3,424.7	2,002.8	-
1988	169.8	169.8	-	-	3,453.5 R	2,010.8 R	-
1989	177.7	177.7	-	-	3,384.4 R	1,965.6 R	-
1990	138.9	138.9	-	-	3,250.0 R	1,786.5 R	-
1991	169.8	169.8	-	-	3,353.9 R	1,872.1 R	-
1992	150.3	150.3	-	-	3,293.3 R	1,757.0 R	-
1993	157.9	157.9			3,410.8	1,828.1	-
Recycled							
1975	1,115.9	207.3	870.0	38.6 *	2,282.4	1,977.9	304.5
1976	1,403.4	282.7	1,075.0	45.7	2,671.4	2,340.0	331.4
1977	1,455.1	341.4	1,079.7	34.0	2,669.7	2,367.2	302.5
1978	1,486.3	256.4	1,197.8	32.1	2,654.1	2,321.4	332.7
1979	1,658.7	402.3	1,202.3	54.1	2,614.5	2,308.5	306.0
1980	1,539.6	444.5	1,047.1	48.0	2,476.3	2,234.8	241.5
1981	1,496.2	324.2	1,140.8	31.2	2,496.8	2,260.8	236.0
1982	1,450.8	279.0	1,139.3	32.5	2,299.8	2,076.2	223.6
1983	1,631.5	289.1	1,305.4	37.0	2,467.6	2,211.3	256.3
1984	1,627.8	203.7	1,385.4	38.7	2,540.8	2,277.0	263.8
1985	1,678.5	285.8	1,358.8	33.9	2,468.0	2,241.4	226.6
1986	1,977.0	420.3	1,525.8	30.9	2,475.1	2,255.8	219.3
1987	2,188.9	478.3	1,673.1	37.5	2,584.5	2,342.0	242.5
1988	2,264.8 R	406.6 R	1,823.2	35.0	2,631.0	2,352.3	278.7
1989	2,222.2 R	388.2	1,820.2 R	13.8	2,690.7	2,402.9	287.8
1990	2,381.5 R	322.7	2,051.8 R	7.0	2,699.7 R	2,409.9	289.8
1991	2,719.5 R	622.6	2,096.9 R	**	2,801.0	2,526.3	274.7
1992	3,179.8 R	784.1	2,395.7 R	**	2,902.3	2,619.8	282.5
1993	4,011.9	1,345.6	2,666.3	**	3,160.3	2,837.8	322.5

- Represents zero. R - Revised.

* Reclassification: balance of chip board (non-containerboard grades) included in "All Other."

** Included in Corrugating Material

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1975 - 1993

THOUSAND TONS	BOXBOARD (Cont.)	ALL OTHER (Excl. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facing	Tube, Can and Drum	Balance of All Other	Total	Total
Solid Bleached							
1975	1,462.1	87.6	-	-	87.6	256.2	3,324.0
1976	1,518.4	122.9	-	-	122.9	306.1	3,820.3
1977	1,483.1	172.3	-	-	172.3	389.4	3,703.0
1978	1,446.2	220.5	-	-	220.5	432.9	3,954.8
1979	1,442.7	234.2	-	-	234.2	496.7	3,973.3
1980	1,421.6	220.0	-	-	220.0	549.8	3,835.8
1981	1,392.6	205.3	-	-	205.3	556.4	3,886.1
1982	1,283.6	196.1	-	-	196.1	524.7	3,644.0
1983	1,358.7	213.0	-	-	213.0	514.4	3,894.8
1984	1,395.8	209.0	-	-	209.0	478.3	4,011.2
1985	1,381.1	208.3	-	-	208.3	465.6	3,910.8
1986	1,395.3	199.9	-	-	199.9	568.7	4,207.2
1987	1,421.9	228.4	-	-	228.4	618.9	4,406.3
1988	1,442.7 R	254.9	-	-	254.9 R	632.9 R	4,510.9
1989	1,418.6	251.2	-	-	251.2	707.9 R	4,521.4
1990	1,463.5 R	249.3	-	-	249.3 R	761.0 R	4,399.2 R
1991	1,481.8 R	257.6	-	-	257.6	790.7 R	4,572.0
1992	1,536.3 R	246.7	-	-	246.7 R	812.4 R	4,502.7
1993	1,582.7	219.7	-	-	219.7	794.7	4,583.1
Recycled							
1975	0.8	2,745.6	893.8	717.6	1,134.2 *	23.8	6,167.7
1976	0.1	3,046.8	984.5	780.9	1,281.4	36.5	7,158.1
1977	-	3,162.2	1,056.8	833.8	1,271.6	29.5	7,316.5
1978	-	3,322.6	1,094.0	897.8	1,330.8	21.5	7,484.5
1979	-	3,295.7	1,179.9	899.4	1,216.4	21.8	7,590.7
1980	-	2,972.8	918.8	848.9	1,205.1	82.6	7,071.3
1981	-	2,983.9	887.6	892.7	1,203.6	23.8	7,000.7
1982	-	2,713.6	805.2	852.0	1,056.4	12.7	6,476.9
1983	-	3,274.8	1,053.8	1,006.5	1,214.5	24.3	7,398.2
1984	-	3,450.5	1,125.2	1,063.3	1,262.0	17.4	7,636.5
1985	-	3,382.6	1,149.4	1,047.2	1,186.0	26.3	7,555.4
1986	-	3,569.6	1,220.1	1,102.3	1,247.2	70.2	8,091.9
1987	-	3,752.7	1,237.0	1,173.3	1,342.4	75.4	8,601.5
1988	-	3,951.0 R	1,311.2	1,255.9 R	1,383.9 R	72.0	8,918.8 R
1989	-	3,901.0	1,281.1	1,303.8	1,316.1	38.0	8,851.9 R
1990	-	3,895.9 R	1,229.6	1,331.0 R	1,335.3 R	49.3 R	9,026.4 R
1991	-	3,732.1 R	1,081.4 R	1,358.3	1,292.4 R	79.4	9,332.0 R
1992	-	3,906.7	1,200.2	1,350.0	1,356.5	73.8	10,062.6 R
1993		4,259.0	1,391.9	1,359.9	1,507.2	79.0	11,510.2

- Represents zero. R - Revised.

* Reclassification: balance of chip board (non-containerboard grades) included in "All Other."

TABLE VIII
PAPER AND PAPERBOARD
PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.D.P.
1965 - 1993

000 Short Tons	1965	1966	1967	1968 RS	1969 RS	1970	1971
Production - Total	43,455	46,701	46,568	50,147	52,928	51,670	53,162
Total Paper	19,157	20,725	20,926	22,181	23,449	23,351	23,722
Total Paperboard	21,332	23,178	22,819	24,904	26,376	25,367	26,019
Unbleached Kraft	8,301	9,303 E	9,485 E	10,762	11,816	11,541	11,800
Semichemical	2,681	2,969 E	3,057 E	3,475	3,697	3,518	3,700
Bleached Kraft	2,818	3,053 E	3,060 E	3,324 *	3,541	3,327	3,363
Recycled	7,532	7,853 E	7,217 E	7,343	7,322	6,981	7,156
Wet Machine Board	144	148	144	155	148	139	138
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594	1,837
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219	1,446
New Supply							
Total Paper	25,197	27,323	27,232	28,277	29,973	29,650	30,084
Newsprint	8,510	9,268	9,165	9,307	9,959	9,797	9,773
Printing/Writing Papers 1/	9,348	10,362	10,210	10,502	11,218	11,016	11,295
Uncoated Groundwood	1,069	1,217	1,163	1,219	1,306	1,310	1,324
Coated	2,767	3,039	3,041	3,045	3,240	3,168	3,124
Uncoated Free Sheet	4,198	4,676	4,584	4,769	5,163	5,098	5,413
Thin and Cotton Fiber	314	351	345	351	371	353	338
Bleached Bristols	1,000	1,079	1,077	1,118	1,138	1,087	1,096
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,033	5,205	5,139	5,199
Unbleached Kraft	3,150	3,269	3,233	3,494	3,602	3,582	3,598
Other	1,323	1,341	1,412	1,539	1,603	1,557	1,601
Tissue	2,868	3,083	3,212	3,435	3,591	3,698	3,817
Total Paperboard 2/	20,301	22,063	21,498	23,323	24,527	23,478	23,921
Unbleached Kraft	7,401	8,332	8,317	9,388	10,136	9,858	9,976
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434	3,596
Bleached Board	2,771	2,994	2,999	3,215	3,432	3,213	3,207
Recycled	7,503	7,832	7,201	7,339	7,314	6,973	7,142
Construction and Other	2,972	2,791	2,827	3,074	3,105	2,972	3,466
Total All Grades, Excluding Products	48,470	52,177	51,557	54,674	57,605	56,100	57,471
Paper and Products 3/	25,130	27,386	27,238	28,316	30,015	29,780	30,389
Paperboard and Products 3/	20,168	21,940	21,370	22,974	24,316	23,216	23,595
Paper, Paperboard and Products 3/	45,298	49,326	48,608	51,289	54,331	52,996	53,984
Total Including Products	48,270	52,117	51,435	54,363	57,436	55,968	57,450
Real G.D.P. - $ Bil., 1987 Prices	2,470.5	2,616.2	2,685.2	2,796.9	2,873.0	2,873.9	2,955.9
Ratio of New Supply to Real GDP							
Total Paper	10.199	10.444	10.142	10.110	10.433	10.317	10.178
Newsprint	3.445	3.543	3.413	3.328	3.466	3.409	3.306
Printing/Writing Papers	3.784	3.961	3.802	3.755	3.905	3.833	3.821
Uncoated Groundwood	0.433	0.465	0.433	0.436	0.455	0.456	0.448
Coated	1.120	1.162	1.133	1.089	1.128	1.102	1.057
Uncoated Free Sheet	1.699	1.787	1.707	1.705	1.797	1.774	1.831
Thin and Cotton Fiber	0.127	0.134	0.128	0.125	0.129	0.123	0.114
Bleached Bristols	0.405	0.412	0.401	0.400	0.396	0.378	0.371
Packaging and Ind. Conv. Papers	1.811	1.762	1.730	1.799	1.812	1.788	1.759
Unbleached Kraft	1.275	1.250	1.204	1.249	1.254	1.246	1.217
Other	0.536	0.513	0.526	0.550	0.558	0.542	0.542
Tissue	1.160	1.178	1.196	1.228	1.250	1.287	1.291
Total Paperboard	8.217	8.433	8.006	8.339	8.537	8.169	8.093
Unbleached Kraft	2.996	3.185	3.097	3.357	3.528	3.430	3.375
Semichemical	1.063	1.110	1.110	1.209	1.269	1.195	1.217
Bleached Board	1.122	1.144	1.117	1.149	1.195	1.118	1.085
Recycled	3.037	2.994	2.682	2.624	2.546	2.426	2.416
Construction and Other	1.203	1.067	1.053	1.099	1.081	1.034	1.173
Total All Grades, Excluding Products	19.620	19.944	19.200	19.548	20.050	19.521	19.443
Paper and Products	10.172	10.468	10.144	10.124	10.447	10.362	10.281
Paperboard and Products	8.164	8.386	7.958	8.214	8.463	8.078	7.982
Paper, Paperboard and Products	18.336	18.854	18.102	18.338	18.911	18.440	18.263
Total All Grades, Including Products	19.539	19.921	19.155	19.437	19.992	19.475	19.436

NOTE: See bottom of page 29 for footnotes. * Includes about 5% paper. E - Estimated by AF&PA. RS - Revised Series.

TABLE VIII (Cont.)
PAPER AND PAPERBOARD
PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.D.P.
1965-1993

000 Short Tons	1972	1973	1974	1975	1976	1977	1978
Production - Total	57,434	59,900	58,040	50,976	58,329	60,040	62,047
Total Paper	25,359	26,797	25,863	23,260	26,577	27,722	28,320
Total Paperboard	28,483	29,549	28,894	24,736	28,416	28,935	30,251
Unbleached Kraft	13,269	13,563	13,333	11,543	13,332	13,651	14,373
Semichemical	4,010	4,260	4,175	3,702	4,105	4,264	4,439
Bleached Kraft	3,667	3,842	3,752	3,324	3,820	3,703	3,955
Recycled	7,538	7,885	7,634	6,168	7,158	7,317	7,485
Wet Machine Board	148	149	144	115	130	129	136
Building Paper	1,915	1,858	1,845	1,615	1,772	1,852	1,915
Insulating Board	1,529	1,547	1,295	1,249	1,434	1,403	1,425
New Supply							
Total Paper	32,035	34,028	34,175	28,263	32,513	34,208	35,992
Newsprint	10,269	10,877	10,955	9,048	9,917	10,081	10,788
Printing/Writing Papers 1/	12,312	13,495	13,571	10,933	13,281	14,281	15,244
Uncoated Groundwood	1,334	1,388	1,460	1,317	1,588	1,794	1,907
Coated	3,412	3,711	3,693	3,037	3,842	4,223	4,540
Uncoated Free Sheet	5,996	6,729	6,794	5,295	6,439	6,793	7,230
Thin and Cotton Fiber	390	410	401	334	363	384	435
Bleached Bristols	1,180	1,257	1,223	950	1,049	1,087	1,132
Packaging and Ind. Conv. Papers	5,497	5,640	5,587	4,334	5,151	5,577	5,754
Unbleached Kraft	3,791	3,916	3,951 RS	3,070	3,598	3,720	3,884
Other	1,706	1,724	1,636 RS	1,264	1,553	1,857	1,870 *
Tissue	3,957	4,016	4,062	3,948	4,164	4,269	4,206
Total Paperboard 2/	26,261	27,567	26,779	23,292	26,720	27,132	28,311
Unbleached Kraft	11,382	11,972	11,760	10,485	12,089	12,376	12,938
Semichemical	3,898	4,153	4,030	3,587	3,986	4,142	4,320
Bleached Board	3,449	3,561	3,432	3,068	3,514	3,314	3,522
Recycled	7,532	7,881	7,557	6,152	7,131	7,300	7,531
Construction and Other	3,651	3,604	3,301	3,002	3,367	3,464	3,737
Total All Grades, Excluding Products	61,947	65,199	64,255	54,557	62,600	64,804	68,040
Paper and Products 3/	32,266	34,060	33,740	28,320	32,507	34,100	36,177
Paperboard and Products 3/	26,124	27,340	26,267	22,792	26,139	26,678	27,873
Paper, Paperboard and Products 3/	58,390	61,400	60,007	51,111	58,647	60,778	64,050
Total Including Products	62,041	65,004	63,308	54,113	62,014	64,243	67,787
Real G.D.P. - $ Bil., 1987 Prices	3,107.1	3,268.6	3,248.1	3,221.7	3,380.8	3,533.3	3,703.5
Ratio of New Supply to Real GDP							
Total Paper	10.310	10.411	10.522	8.773	9.617	9.682	9.718
Newsprint	3.305	3.328	3.373	2.808	2.933	2.853	2.913
Printing/Writing Papers	3.963	4.129	4.178	3.394	3.928	4.042	4.116
Uncoated Groundwood	0.429	0.425	0.449	0.409	0.470	0.508	0.515
Coated	1.098	1.135	1.137	0.943	1.136	1.195	1.226
Uncoated Free Sheet	1.930	2.059	2.092	1.644	1.905	1.923	1.952
Thin and Cotton Fiber	0.126	0.125	0.123	0.104	0.107	0.109	0.117
Bleached Bristols	0.380	0.385	0.377	0.295	0.310	0.308	0.306
Packaging and Ind. Conv. Papers	1.769	1.726	1.720	1.345	1.524	1.578	1.554
Unbleached Kraft	1.220	1.198	1.216	0.953	1.064	1.053	1.049
Other	0.549	0.527	0.504	0.392	0.459	0.526	0.505
Tissue	1.274	1.229	1.251	1.225	1.232	1.208	1.136
Total Paperboard	8.452	8.434	8.245	7.230	7.903	7.679	7.644
Unbleached Kraft	3.663	3.663	3.621	3.254	3.576	3.503	3.493
Semichemical	1.255	1.271	1.241	1.113	1.179	1.172	1.166
Bleached Board	1.110	1.089	1.057	0.952	1.039	0.938	0.951
Recycled	2.424	2.411	2.327	1.910	2.109	2.066	2.033
Construction and Other	1.175	1.103	1.016	0.932	0.996	0.980	1.009
Total All Grades, Excluding Products	19.937	19.947	19.782	16.934	18.516	18.341	18.372
Paper and Products	10.385	10.420	10.388	8.790	9.615	9.651	9.768
Paperboard and Products	8.408	8.364	8.087	7.074	7.732	7.550	7.526
Paper, Paperboard and Products	18.792	18.785	18.474	15.865	17.347	17.202	17.294
Total All Grades, Including Products	19.967	19.887	19.491	16.796	18.343	18.182	18.304

RS - Revised Series

* Data overstated by about 10%.

NOTE: For footnotes see bottom of page 29

TABLE VIII (Cont.)
PAPER AND PAPERBOARD
PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.D.P.
1965-1993

000 Short Tons	1979	1980	1981	1982	1983	1984	1985
Production - Total	64,345	63,600	64,259	60,951	66,748	70,249	68,683
Total Paper	29,666	30,116	30,901	30,245	32,802	34,446	34,061
Total Paperboard	31,404	30,926	31,208	29,045	32,145	34,002	32,922
Unbleached Kraft	15,151	15,295	15,602	14,535	16,122	17,185	16,368
Semichemical	4,689	4,724	4,719	4,389	4,730	5,169	5,088
Bleached Kraft	3,973	3,836	3,886	3,644	3,895	4,011	3,911
Recycled	7,591	7,071	7,001	6,477	7,398	7,837	7,555
Wet Machine Board E	144	138	160	129	140	140	130
Building Paper E	1,868	1,369	1,144	798	760	700	680
Insulating Board E	1,263	1,051	846	735	900	960	890
New Supply							
Total Paper	37,450	37,126	37,547	37,176	40,133	43,510	43,557
Newsprint	11,159	11,377	11,694	11,514	11,514 RS	12,676	12,758
Printing/Writing Papers 1/	16,060	16,124	16,139	16,234	18,508	20,473	20,658
Uncoated Groundwood	2,123	2,086	2,001	2,068	2,414	2,833	2,960
Coated	4,588	4,644	4,843	4,979	5,799	6,592	6,289
Uncoated Free Sheet	7,891	8,015	7,870	7,896	8,889	9,546	10,005
Thin and Cotton Fiber	468	415	439	394	423	478	413
Bleached Bristols	1,010	964	986	897	983	1,024	991
Packaging and Ind. Conv. Papers	5,701	5,243	5,241	5,007	5,327	5,427	5,163
Unbleached Kraft	3,935	3,707	3,654	3,347	3,431	3,455	3,242
Other	1,766	1,536	1,587	1,660	1,896	1,972	1,921
Tissue	4,510	4,382	4,473	4,421	4,784	4,934	4,978
Total Paperboard 2/	29,225	27,689	28,717	26,504	29,301	31,515	30,595
Unbleached Kraft	13,532	12,958	13,764	12,639	13,890	15,169	14,589
Semichemical	4,624	4,433	4,616	4,251	4,607	5,124	4,964
Bleached Board	3,477	3,287	3,330	3,119	3,380	3,533	3,445
Recycled	7,592	7,011	7,007	6,495	7,424	7,689	7,597
Construction and Other	3,598	2,968	2,468	2,025	2,210	2,222	2,048
Total All Grades, Excluding Products	70,273	67,783	68,732	65,705	71,644	77,247	76,199
Paper and Products 3/	37,383	37,028	37,333	36,562	40,032	43,647	43,941
Paperboard and Products 3/	28,815	27,172	28,156	26,143	28,925	31,068	30,144
Paper, Paperboard and Products 3/	66,198	64,200	65,489	62,705	68,957	74,715	74,085
Total All Grades, Including Products	69,796	67,168	67,957	64,730	71,167	76,937	76,133
Real G.D.P. - $ Bil., 1987 Prices	3,796.8	3,776.3	3,843.1	3,760.3	3,906.6	4,148.5	4,279.8
Ratio of New Supply to Real GDP							
Total Paper	9.864	9.831	9.770	9.886	10.273	10.488	10.177
Newsprint	2.939	3.013	3.043	3.062	2.947	3.056	2.981
Printing/Writing Papers	4.235	4.270	4.199	4.317	4.738	4.935	4.827
Uncoated Groundwood	0.559	0.552	0.521	0.550	0.618	0.683	0.692
Coated	1.208	1.230	1.260	1.324	1.484	1.589	1.469
Uncoated Free Sheet	2.078	2.122	2.048	2.100	2.275	2.301	2.338
Thin and Cotton Fiber	0.123	0.110	0.114	0.105	0.108	0.115	0.097
Bleached Bristols	0.266	0.255	0.257	0.239	0.252	0.247	0.232
Packaging and Ind. Conv. Papers	1.502	1.388	1.364	1.332	1.364	1.308	1.206
Unbleached Kraft	1.036	0.982	0.951	0.890	0.878	0.833	0.758
Other	0.465	0.407	0.413	0.441	0.485	0.475	0.449
Tissue	1.188	1.160	1.164	1.176	1.225	1.189	1.163
Total Paperboard	7.697	7.332	7.472	7.048	7.500	7.597	7.149
Unbleached Kraft	3.564	3.431	3.581	3.361	3.556	3.657	3.409
Semichemical	1.218	1.174	1.201	1.130	1.179	1.235	1.160
Bleached Board	0.916	0.870	0.866	0.829	0.865	0.852	0.805
Recycled	2.000	1.857	1.823	1.727	1.900	1.853	1.775
Construction and Other	0.948	0.786	0.642	0.539	0.566	0.536	0.478
Total All Grades, Excluding Products	18.508	17.950	17.885	17.473	18.339	18.621	17.804
Paper and Products	9.846	9.805	9.714	9.723	10.247	10.521	10.267
Paperboard and Products	7.589	7.195	7.326	6.952	7.404	7.489	7.043
Paper, Paperboard and Products	17.435	17.001	17.041	16.676	17.651	18.010	17.310
Total All Grades, Including Products	18.383	17.787	17.683	17.214	18.217	18.548	17.789

NOTE: For footnotes see bottom of page 29 RS - Revised Series.

TABLE VIII (Cont.)
PAPER AND PAPERBOARD
PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.D.P.
1965-1993

000 Short Tons	1986	1987	1988	1989	1990	1991	1992 R	1993 P
Production - Total	72,505	75,951	78,087	78,356	80,354	81,100	84,558	86,557
Total Paper	35,550	36,919	38,353	38,266	39,361	39,084	40,973	41,745
Total Paperboard	35,355	37,442	38,234	38,519	39,423	40,416	41,985	43,213
Unbleached Kraft	17,680	18,898	19,140	19,490	20,357	20,960	21,658	21,447
Semichemical	5,376	5,536	5,664	5,656	5,640	5,552	5,762	5,672
Bleached Kraft	4,207	4,406	4,511	4,521	4,399	4,572	4,503	4,583
Recycled	8,092	8,602	8,919	8,852	9,026	9,332	10,063	11,510
Wet Machine Board E	130	120	100	100	100	100	100	100
Building Paper E	600	600	600	600	600	600	600	600
Insulating Board E	870	870	800	870	870	900	900	900
New Supply								
Total Paper	45,332	47,527	49,085	48,376	49,494	47,379	49,424	51,244
Newsprint	12,952	13,729	13,555	13,209	13,412	12,462	12,658	12,750
Printing/Writing Papers 1/	22,134	23,487	25,006	24,449	25,466	24,650	26,205	27,844
Uncoated Groundwood	3,094	3,196	3,465	3,528	3,713	3,552	3,707	4,342
Coated	6,686	7,433	8,060	7,821	8,253	7,876	8,588	9,071
Uncoated Free Sheet	10,836	11,331	11,810	11,542	12,024	11,824	12,524	12,924
Thin and Cotton Fiber	449	450	472	382	324	261	209	212
Bleached Bristols	1,069	1,078	1,199	1,175	1,152	1,137	1,176	1,295
Packaging and Ind. Conv. Papers	5,106	4,990	5,030	4,982	4,718	4,596	4,783	4,628
Unbleached Kraft	3,153	2,919	2,852	2,796	2,499	2,378	2,467	2,306
Other Packg. and Indust. Conv.	1,953	2,071	2,178	2,186	2,219	2,217	2,317	2,322
Tissue	5,140	5,321	5,494	5,737	5,899	5672	5,778	6,022
Total Paperboard 2/	32,548	34,613	35,438	35,806	36,406	36,826	38,543	40,045
Unbleached Kraft	15,522	16,676	16,930	17,212	17,780	17,794	18,515	18,456
Semichemical	5,263	5,472	5,670	5,637	5,609	5,482	5,730	5,774
Bleached Board	3,639	3,787	3,878	3,813	3,638	3,781	3,690	3,788
Recycled	8,125	8,677	8,960	9,144	9,378	9,768	10,608	12,026
Construction and Other	1,845	1,792	1,691	1,724	1,702	1,674	1,712	1,713
Total All Grades, Excluding Products	79,725	83,932	86,215	85,906	87,601	85,879	89,679	93,003
Paper and Products 3/	45,713	47,830	49,292	48,612	49,676	47,621	49,034	51,013
Paperboard and Products 3/	32,196	33,862	34,523	34,820	35,328	35,641	37,383	38,675
Paper, Paperboard and Products 3/	77,909	81,692	83,815	83,432	85,004	83,262	86,418	89,689
Total All Grades, Including Products	79,754	83,484	85,506	85,156	86,706	84,936	88,130	91,402
Real G.D.P. - $ Bil., 1987 Prices	4,404.5	4,539.9	4,718.6	4,838.0	4,897.3	4,867.6	4,979.3	5,134.5
Ratio of New Supply to Real GDP								
Total Paper	10.292	10.469	10.403	9.999	10.106	9.734	9.926	9.980
Newsprint	2.941	3.024	2.873	2.730	2.739	2.560	2.542	2.483
Printing/Writing Papers	5.025	5.174	5.299	5.054	5.200	5.064	5.263	5.423
Uncoated Groundwood	0.702	0.704	0.734	0.729	0.758	0.730	0.745	0.846
Coated	1.518	1.637	1.708	1.617	1.685	1.618	1.725	1.767
Uncoated Free Sheet	2.460	2.496	2.503	2.386	2.455	2.429	2.515	2.517
Thin and Cotton Fiber	0.102	0.099	0.100	0.079	0.066	0.054	0.042	0.041
Bleached Bristols	0.243	0.237	0.254	0.243	0.235	0.234	0.236	0.252
Packaging and Ind. Conv. Papers	1.159	1.099	1.066	1.030	0.963	0.944	0.961	0.901
Unbleached Kraft	0.716	0.643	0.604	0.578	0.510	0.489	0.495	0.449
Other	0.443	0.456	0.462	0.452	0.453	0.456	0.465	0.452
Tissue	1.167	1.172	1.164	1.186	1.205	1.165	1.160	1.173
Total Paperboard	7.390	7.624	7.510	7.401	7.434	7.566	7.741	7.799
Unbleached Kraft	3.524	3.673	3.588	3.558	3.631	3.656	3.718	3.595
Semichemical	1.195	1.205	1.202	1.165	1.145	1.126	1.151	1.125
Bleached Board	0.826	0.834	0.822	0.788	0.743	0.777	0.741	0.738
Recycled	1.845	1.911	1.899	1.890	1.915	2.007	2.130	2.342
Construction and Other	0.419	0.395	0.358	0.356	0.347	0.344	0.344	0.334
Total All Grades, Excluding Products	18.101	18.488	18.271	17.757	17.888	17.643	18.010	18.113
Paper and Products	10.379	10.536	10.446	10.048	10.144	9.783	9.848	9.935
Paperboard and Products	7.310	7.459	7.316	7.197	7.214	7.322	7.508	7.532
Paper, Paperboard and Products	17.689	17.994	17.763	17.245	17.357	17.105	17.355	17.468
Total All Grades, Including Products	18.107	18.389	18.121	17.602	17.705	17.449	17.699	17.802

1/ - New Supply: Production plus imports from Table XXXIII less exports from Table XII. 2/ - New Supply: Production plus imports from Table XI less exports from Table XXXV.
3/ - New Supply: Production plus imports from Table XI less exports from Table XII. E - Estimated by AF&PA 1982 - 1993
Note: New supply of other grades based on imports from Table XI and exports from Table XII (Census data). R - Revised P - Preliminary

TABLE IX

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1981 - 1996

(THOUSANDS OF TONS)

	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL ALL GRADES	72,255	73,118	74,017	75,944	76,622	77,921	80,340	82,663
Total Paper	33,707	34,665	35,675	37,104	37,581	38,013	39,081	40,211
Newsprint	5,457	5,654	5,774	5,851	5,788	5,804	6,006	6,115
Total Printing, Writing & Related	17,301	17,809	18,633	19,889	20,462	20,980	22,078	23,027
Groundwood Uncoated	1,625	1,655	1,710	1,704	1,710	1,685	1,653	1,735
Coated Papers - Total	5,292	5,516	5,995	6,557	6,665	6,743	7,365	7,783
Coated Groundwood	3,047	3,242	3,522	3,766	3,820	3,799	4,136	4,347
Coated Free Sheet	2,245	2,274	2,473	2,791	2,845	2,944	3,229	3,436
Uncoated Free Sheet	8,828	9,039	9,354	10,058	10,515	11,023	11,493	11,853
Cotton Fiber	147	161	162	181	187	192	198	203
Thin	374	369	347	338	326	312	290	282
Solid Bleached Bristols	1,035	1,069	1,065	1,051	1,059	1,025	1,079	1,171
Total Packaging & Ind. Conv.	5,914	6,077	6,078	6,088	5,986	5,757	5,492	5,402
Unbleached Kraft	3,961	4,091	4,065	3,972	3,808	3,579	3,295	2,908
Bleached Pkg. & Ind. Conv.	1,083	1,080	1,119	1,148	1,104	1,092	1,066	1,077
Specialty Pkg.	554	553	569	599	519	554	565	638
Bleached Pkg.	529	527	550	549	585	538	501	439
Special Industrial	870	906	894	968	1,074	1,086	1,131	1,417
Tissue	5,035	5,125	5,190	5,276	5,345	5,472	5,505	5,667
Total Paperboard	34,467	35,421	35,452	35,992	36,720	37,765	39,106	40,321
Total Unbleached Kraft Packaging & Industrial Converting	16,738	17,401	17,510	17,834	18,144	18,622	19,422	20,269
Linerboard	15,372	16,032	16,217	16,565	16,739	17,175	17,949	18,705
Folding Boxboard	799	860	800	792	905	946	1,000	1,055
Other	567	509	493	477	500	501	473	509
Total Bleached Packaging Paperboard	4,141	4,123	4,130	4,185	4,370	4,577	4,734	4,732
Folding Boxboard	1,966	1,988	1,992	2,095	2,223	2,341	2,364	2,323
Milk Carton & Food Service	1,839	1,812	1,812	1,771	1,843	1,926	2,031	2,017
Linerboard	106	104	111	119	131	135	148	170
Other	230	219	215	200	173	175	191	222
Semichemical Paperboard	4,988	5,207	5,119	5,252	5,411	5,557	5,682	5,788
Total Recycled Paperboard	8,600	8,690	8,693	8,721	8,795	9,009	9,268	9,532
Linerboard	463	379	395	393	422	467	515	494
Corrugating Medium	1,349	1,478	1,427	1,524	1,523	1,580	1,685	1,947
Container Chip & Filler	309	273	247	228	53 @	42	40 @	35
Folding	2,633	2,676	2,671	2,626	2,640	2,662	2,661	2,601
Set-up	335	331	324	296	289	272	275	288
Gypsum Wall Board Facing	1,251	1,255	1,217	1,249	1,265	1,349	1,386	1,411
Other	2,260	2,298	2,412	2,405	2,603 @	2,637	2,706 @	2,756
Total Paper and Paperboard	68,172	70,086	71,126	73,098	74,301	75,777	78,186	80,533
Total Wet Machine Board	157	160	173	170	160	154	153	121
Total Construction Paper & Board	3,926	2,872	2,718	2,676	2,161	1,990	2,001	2,009
Construction Paper	2,111	1,306	1,234	1,227	937	834	822	830
Insulating Board	1,815	1,566	1,484	1,449	1,224	1,156	1,179	1,179
Total Hard Pressed Board ##	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.
Note: Detail may not add to total due to rounding. ## - Hard Pressed Board not included in Total Paper and Board. N.A. - Not Available.
@ - Reflects shift of 160,000 tons of non-containerboard grade to "other" recycled paperboard.

TABLE IX (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1981 - 1996

(THOUSANDS OF TONS)

	1989	1990	1991	1992R	1993 P	1994 P	1995 P	1996 P
TOTAL ALL GRADES	84,316	86,514	88,994	91,627	93,230	95,048	96,823	98,536
Total Paper	41,165	42,315	43,777	44,984	45,482	46,386	47,051	47,469
Newsprint	6,296	6,792	7,054	7,303	7,221	7,233	7,216	7,229
Total Printing, Writing & Related	23,637	24,149	25,052	25,846	26,390	27,086	27,599	27,886
Groundwood Uncoated	1,874	1,946	1,968	1,868	1,883	1,932	1,943	1,943
Coated Papers - Total	7,844	8,090	8,372	8,805	9,085	9,234	9,409	9,500
Coated Groundwood	4,341	4,414	4,406	4,587	4,707	4,757	4,845	4,884
Coated Free Sheet	3,503	3,676	3,966	4,218	4,378	4,477	4,564	4,616
Uncoated Free Sheet	12,092	12,335	12,948	13,363	13,551	14,030	14,352	14,547
Cotton Fiber	202	202	208	197	203	206	209	209
Thin	281	262	254	254	255	260	260	260
Solid Bleached Bristols	1,345	1,314	1,302	1,359	1,413	1,424	1,426	1,427
Total Packaging & Ind. Conv.	5,435	5,369	5,429	5,422	5,339	5,368	5,417	5,440
Unbleached Kraft	2,809	2,710	2,832	2,737	2,661	2,686	2,725	2,742
Bleached Pkg. & Ind. Conv.	1,155	1,150	1,175	1,231	1,220	1,221	1,222	1,222
Specialty Pkg.	644	661	709	724	707	708	708	708
Bleached Pkg.	511	489	466	507	513	513	514	514
Special Industrial	1,471	1,509	1,422	1,454	1,458	1,461	1,470	1,476
Tissue	5,798	6,005	6,242	6,413	6,532	6,699	6,819	6,914
Total Paperboard	40,993	42,078	43,099	44,482	45,565	46,474	47,584	48,879
Total Unbleached Kraft Packaging & Industrial Converting	20,878	21,438	22,029	22,550	22,708	22,907	23,130	23,564
Linerboard	19,192	19,743	20,194	20,692	20,775	20,842	20,933	21,302
Folding Boxboard	1,183	1,193	1,357	1,391	1,453	1,582	1,714	1,779
Other	503	502	478	467	480	483	483	483
Total Bleached Packaging Paperboard	4,716	4,706	4,922	4,947	4,959	5,201	5,371	5,598
Folding Boxboard	2,298	2,243	2,375	2,436	2,534	2,706	2,775	2,882
Milk Carton & Food Service	1,961	2,027	2,086	2,038	1,979	2,043	2,150	2,272
Linerboard	194	190	172	186	177	182	182	183
Other	263	246	289	287	269	270	264	261
Semichemical Paperboard	5,781	5,894	5,910	5,817	5,908	5,928	5,955	6,017
Total Recycled Paperboard	9,617	10,040	10,238	11,168	11,990	12,438	13,128	13,700
Linerboard	458	489	698	1,000	1,557	1,808	2,266	2,615
Corrugating Medium	2,042	2,228	2,135	2,523	2,717	2,813	2,926	3,084
Container Chip & Filler	**	**	**	**	**	**	**	**
Folding	2,569	2,674	2,824	2,934	2,996	3,045	3,126	3,175
Set-up	313	318	323	335	330	336	337	339
Gypsum Wall Board Facing	1,393	1,391	1,343	1,409	1,417	1,419	1,421	1,422
Other	2,842	2,940	2,915	2,967	2,973	3,017	3,052	3,065
Total Paper and Paperboard	82,158	84,393	86,877	89,466	91,047	92,860	94,635	96,348
Total Wet Machine Board	118	116	116	115	117	117	117	117
Total Construction Paper & Board	2,039	2,005	2,001	2,046	2,066	2,071	2,071	2,071
Construction Paper	826	833	857	908	925	930	930	930
Insulating Board	1,213	1,172	1,144	1,138	1,141	1,141	1,141	1,141

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.
P - Plans as reported in December 1993 Capacity Survey. Note: Detail does not always add to total due to rounding.
** Container Chip and Filler Board included with Corrugating Medium. R - Revised

TABLE X

UNITED STATES CAPACITY TO PRODUCE WOOD PULP

1981 - 1996

(Thousands of Tons)

	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL ALL GRADES (1)	56,831	57,638	57,590	59,001	59,615	60,686	62,076	63,754
TOTAL EXCLUDING CONSTRUCTION	54,891	56,125	56,143	57,742	58,641	59,750	61,172	62,950
Dissolving and Special Alpha	1,598	1,606	1,525	1,487	1,454	1,399	1,389	1,450
Chemical Paper Grades Total	43,143	43,972	44,285	45,479	46,544	47,655	48,825	50,278
Sulfite, Paper Grades Total	1,855	1,780	1,789	1,750	1,738	1,703	1,646	1,627
Bleached Total	1,464	1,383	1,404	1,445	1,482	1,502	1,460	1,442
Unbleached	391	397	385	305	256	201	186	185
Sulfate and Soda Total	41,288	42,192	42,496	43,729	44,806	45,952	47,179	48,651
Bleached & Semi-Bleached Total	20,316	20,757	21,290	22,357	23,624	24,571	25,446	26,506
Hardwood	8,559	8,705	9,179	9,867	10,750	11,402	11,823	12,450
Softwood	11,757	12,052	12,111	12,490	12,874	13,169	13,623	14,056
Unbleached	20,972	21,435	21,206	21,372	21,182	21,381	21,733	22,145
Semichemical Total	4,597	4,734	4,489	4,625	4,650	4,631	4,697	4,788
Bleached	350	356	367	381	395	404	408	369
Unbleached	4,247	4,378	4,122	4,244	4,255	4,227	4,289	4,419
Mechanical Total (Groundwood)	7,434	7,293	7,261	7,380	6,938	6,994	7,160	7,236
For Paper and Board	5,494	5,780	5,814	6,122	5,964	6,058	6,256	6,431
Stone Groundwood	3,239	3,260	3,146	3,168	3,006	2,996	2,942	2,986
Refiner	489	472	480	501	459	402	348	345
Thermo-Mechanical	1,766	2,048	2,188	2,453	2,499	2,660	2,966	3,100
For Other Paper and Board	1,940	1,513	1,447	1,258	974	936	904	805
Stone and Refiner	651	628	576	469	269	269	275	222
Defibrated and Exploded	1,289	885	871	789	705	667	629	583
Screenings	58	34	31	29	29	7	6	4
MARKET PULP								
Total All Grades	6,971	7,080	7,414	7,530	7,989	8,039	8,505	8,908
Dissolving	1,579	1,598	1,519	1,487	1,446	1,395	1,388	1,450
Chemical Paper Grades	5,375	5,470	5,881	6,029	6,529	6,630	7,103	7,451
Sulfate	5,034	5,182	5,529	5,727	6,227	6,343	6,819	7,178
Bl. and Semi-Bleached	4,867	5,040	5,372	5,582	6,083	6,198	6,651	6,991
Unbleached	167	142	157	145	144	145	168	187
Sulfite	341	288	352	302	302	287	284	273
All Other	17	12	14	14	14	14	14	7

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.
(1) Excludes defibrated and exploded wood pulp for hard pressed board.

TABLE X (Cont.)

UNITED STATES CAPACITY TO PRODUCE WOOD PULP

1981 - 1996

(Thousands of Tons)

	1989	1990	1991	1992 R	1993 P	1994 P	1995 P	1996 P
TOTAL ALL GRADES	65,026	65,985	67,489	68,700	68,485	68,955	69,315	69,636
TOTAL EXCLUDING CONSTRUCTION	64,289	65,367	66,894	68,101	67,896	68,368	68,728	69,049
Dissolving and Special Alpha	1,465	1,486	1,527	1,460	1,469	1,470	1,470	1,470
Chemical Paper Grades Total	51,430	52,250	53,767	55,053	54,877	55,401	55,732	56,049
Sulfite, Paper Grades Total	1,644	1689	1656	1,511	1,449	1,445	1,447	1,449
Bleached Total	1,459	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unbleached	185	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sulfate and Soda Total	49,786	50,561	52,111	53,542	53,428	53,956	54,285	54,600
Bleached & Semi-Bleached Total	27,321	27,819	29,082	30,347	30,511	31,043	31,394	31,665
Hardwood	13,125	13,407	14,073	14,946	15,272	15,680	15,813	15,850
Softwood	14,196	14,412	15,009	15,401	15,239	15,363	15,581	15,815
Unbleached	22,465	22,742	23,029	23,195	22,917	22,913	22,891	22,935
Semichemical Total	4,753	4,669	4,533	4,509	4,494	4,499	4,499	4,500
Bleached	376	366	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unbleached	4,377	4,303	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Mechanical Total (Groundwood)	7,373	7,575	7,657	7,673	7,640	7,580	7,609	7,612
For Paper and Board	6,636	6,957	7,062	7,074	7,051	6,993	7,022	7,025
Stone Groundwood	3,037	3,073	3,006	2,929	2,846	2,786	2,813	2,814
Refiner	354	347	315	316	344	344	344	344
Thermo-Mechanical	3,245	3,537	3,741	3,829	3,861	3,863	3,865	3,867
For Other Paper and Board	737	618	595	599	589	587	587	587
Stone and Refiner	220	161	161	164	150	147	147	147
Defibrated and Exploded	517	457	434	435	439	440	440	440
Screenings	4	5	5	5	5	5	5	5
MARKET PULP								
Total All Grades	9,046	9,527	9,982	10,740	10,720	10,695	10,619	10,561
Dissolving	1,465	1,499	1,527	1,460	1,469	1,470	1,470	1,470
Chemical Paper Grades	7,581	8,028	8,455	9,280	9,251	9,225	9,149	9,091
Sulfate	7,319	7,733	8,176	9,027	8,994	8,968	8,892	8,834
Bl. and Semi-Bleached	7,151	7,556	7,993	8,846	8,814	8,788	8,712	8,654
Unbleached	168	177	183	181	180	180	180	180
Sulfite	262	295	279	253	257	257	257	257
All Other	0	0	0	0	0	0	0	0

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.
P - Plans as published in the December 1993 Capacity Survey. R - Revised.
N.A. - Not Available

TABLE XI

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1988 - 1993

	1988		1989 RS		1990	
	Tons	$000	Tons	$000	Tons	$000
TOTAL ALL GRADES	18,309,754	10,870,516	18,276,870	11,479,925	18,164,075	11,421,145
WOOD PULP, ALL GRADES, TOTAL	5,038,158	2,663,424	5,004,366	2,980,197	4,893,355	2,831,327
Dissolving and Special Alpha	248,456	131,587	284,072	183,680	221,978	132,821
Sulfite, Paper Grades, Total	385,081	201,455	397,849	239,464	319,833	190,626
Bleached	331,899	179,673	358,284	218,859	290,368	176,391
Unbleached	53,182	21,782	39,565	20,605	29,465	14,235
Sulfate and Soda, Paper Grades, Total	4,033,856	2,108,263	3,971,850	2,427,698	4,006,085	2,375,955
Bleached	3,859,586	2,110,794	3,753,249	2,303,180	3,832,214	2,283,797
Semi-Bleached	66,930	35,456	131,816	79,753	79,553	48,789
Unbleached	107,340	52,013	86,785	44,765	94,318	43,369
Groundwood	237,971	78,777	181,049	63,939	155,629	59,766
Other *	132,794	53,342	169,546	65,416	189,830	72,160
WASTE PAPER	161,367	27,361	172,575	33,197	122,539	26,349
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	13,110,229	8,002,048	13,099,929	8,329,907	13,148,181	8,426,660
PAPER, PAPERBOARD AND OTHER, TOTAL	12,727,246	7,038,168	12,537,471	7,231,649	12,728,761	7,426,949
PAPER PLUS PAPERBOARD	12,404,801	6,929,757	12,347,746	7,181,245	12,587,519	7,384,297
PAPER, TOTAL	12,063,790	6,799,044	11,814,260	6,900,798	11,961,308	7,077,036
Newsprint	8,801,503	4,569,853	8,553,401	4,379,613	8,299,557	4,247,131
Printing & Writing Paper, Total	2,859,529	1,948,907	2,732,976	1,996,140	3,104,863	2,248,424
Groundwood, Uncoated	1,362,642	792,881	1,304,114	817,785	1,337,581	843,550
Coated and Impregnated Paper	797,765	641,466	774,022	632,484	936,046	749,082
Uncoated Free Sheet	591,829	414,326	583,077	462,404	752,447	564,479
Uncoated Book	258,146	175,746	N.A.	N.A.	N.A.	N.A.
Writing Papers	333,683	238,580	583,077	462,404	752,447	564,479
Other Fine Paper	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Thin Paper	55,774	48,804	12,711	15,200	11,365	14,296
Bristols	51,519	51,430	59,052	68,267	67,424	77,017
Packaging & Industrial Paper, Total	343,197	231,796	407,086	414,354	425,697	462,237
Unbleached Kraft	161,708	76,116	239,303	116,011	235,352	116,655
Bleached Kraft	146,120	94,119	19,012	18,675	22,638	22,841
Glassine & Greaseproof	22,601	34,611	20,147	31,828	22,059	34,607
Vegetable Parchment	1,611	2,941	1,695	3,167	1,514	2,953
Special Industrial Paper	11,157	24,009	126,088	243,395	143,175	283,812
Non-Kraft Wrapping	N.A.	N.A.	841	1,278	959	1,369
Tissue Paper	59,561	48,488	120,797	110,691	131,189	119,244
PAPERBOARD, TOTAL	341,011	130,713	533,486	280,447	626,213	307,261
Kraft Linerboard	85,682	36,145	85,048	34,401	113,629	48,929
Semichemical Corrugating	142,490	43,596	118,176	36,462	111,935	31,152
Other Paperboard	112,839	50,972	330,262	209,584	400,649	227,180
WET MACHINE BOARD	4,239	3,780	606	580	1,132	991
CONSTRUCTION PAPER & BOARD, TOTAL	318,206	104,631	189,119	49,824	140,110	41,661
Building Paper	192,498	49,454	189,119	49,824	140,110	41,661
Insulating and Other Building Board	125,708	55,177	**	**	**	**
PAPER AND PAPERBOARD PRODUCTS, TOTAL	382,983	963,880	562,458	1,098,258	419,420	999,711
PAPER PRODUCTS, TOTAL	345,817	895,813	470,472	924,729	313,807	807,967
Wallpaper	51,134	247,337	47,246	224,696	47,403	240,451
Writing & Related Paper	241,695	557,631	93,996	206,444	69,168	186,096
Packaging and Industrial Paper	16,415	47,886	197,876	190,429	114,688	228,453
Tissue Paper	36,573	42,959	131,354	303,160	82,348	152,967
PAPERBOARD PRODUCTS, TOTAL	37,166	68,067	91,986	173,529	105,613	191,744

* Includes Mixtures and Screenings ** Transferred to SIC 24 N.A. Not applicable

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000) $177,683 $136,624 $136,809

RS - Revised Series. International Harmonized System used after 1988.

TABLE XI (Cont'd)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1988 - 1993

	1991		1992		1993	
	Tons	$000	Tons	$000	Tons	$000
TOTAL ALL GRADES	17,285,869	10,226,333	17,721,613	10,173,091	19,521,395	10,579,728
WOOD PULP, ALL GRADES, TOTAL	4,996,517	2,131,711	5,029,302	2,094,235	5,412,796	1,860,163
Dissolving and Special Alpha	172,886	89,453	147,264	69,844	93,114	51,968
Sulfite, Paper Grades, Total	307,417	152,731	259,566	119,907	295,267	125,200
Bleached	281,807	143,108	242,593	114,311	287,396	122,642
Unbleached	25,610	9,623	16,973	5,596	7,871	2,558
Sulfate and Soda, Paper Grades, Total	4,196,452	1,774,220	4,310,220	1,801,250	4,593,581	1,558,434
Bleached	3,993,125	1,691,487	4,135,624	1,732,186	4,337,485	1,477,929
Semi-Bleached	91,105	39,446	101,427	41,273	142,565	48,232
Unbleached	112,222	43,287	73,169	27,791	113,531	32,273
Groundwood	139,518	58,292	119,030	45,359	160,720	49,310
Other *	180,244	57,015	193,222	57,875	270,114	75,253
WASTE PAPER	121,932	24,674	149,656	27,668	137,835	22,285
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	12,167,420	7,929,408	12,542,655	7,899,309	13,970,764	8,526,547
PAPER, PAPERBOARD AND OTHER, TOTAL	11,776,020	6,953,552	12,112,096	6,754,223	13,470,797	7,242,849
PAPER PLUS PAPERBOARD	11,682,293	6,922,589	11,975,310	6,710,426	13,330,595	7,195,150
PAPER, TOTAL	10,909,640	6,587,222	11,031,193	6,296,038	12,250,220	6,753,642
Newsprint	7,490,016	3,978,716	7,339,583	3,598,986	7,783,906	3,593,326
Printing & Writing Paper, Total	2,934,786	2,074,526	3,173,194	2,100,089	3,984,252	2,570,080
Groundwood, Uncoated	1,369,279	861,951	1,418,885	859,708	1,733,551	1,001,611
Coated and Impregnated Paper	794,099	631,765	830,054	608,376	1,136,928	823,565
Uncoated Free Sheet	674,870	467,925	802,144	500,413	991,250	618,187
Uncoated Book	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Writing Papers	544,668	344,971	641,860	366,046	304,513	470,986
Other Fine Paper	130,202	122,954	160,284	134,368	686,737	147,201
Thin Paper	14,557	17,514	11,821	15,303	6,759	10,183
Bristols	81,981	95,371	110,290	116,289	115,764	116,534
Packaging & Industrial Paper, Total	415,147	470,784	452,286	541,617	399,409	527,120
Unbleached Kraft	230,616	111,981	228,001	106,122	177,342	93,702
Bleached Kraft	34,696	36,189	42,248	48,764	43,729	51,276
Glassine & Greaseproof	17,686	27,540	19,411	30,058	20,170	29,010
Vegetable Parchment	1,773	3,698	1,890	3,620	2,176	3,828
Special Industrial Paper	128,763	289,346	155,554	348,876	154,748	347,272
Non-Kraft Wrapping	1,613	2,031	5,182	4,177	1,244	2,031
Tissue Paper	69,691	63,196	66,130	55,346	82,653	63,116
PAPERBOARD, TOTAL	772,653	335,367	944,117	414,388	1,080,375	441,508
Kraft Linerboard	156,701	58,384	176,950	68,644	217,945	81,638
Semichemical Corrugating	100,119	23,667	148,131	36,790	267,438	65,898
Other Paperboard	515,833	253,316	619,036	308,954	594,992	293,972
WET MACHINE BOARD	930	857	933	818	924	842
CONSTRUCTION PAPER & BOARD, TOTAL	92,797	30,106	135,853	42,981	139,278	46,857
Building Paper	92,797	30,106	138,853	42,981	139,278	46,857
Insulating and Other Building Board	**	**	**	**	**	**
PAPER AND PAPERBOARD PRODUCTS, TOTAL	391,400	975,856	430,559	1,145,086	499,967	1,283,698
PAPER PRODUCTS, TOTAL	290,256	779,766	304,044	891,733	355,633	1,007,231
Wallpaper	43,065	241,231	45,076	256,055	47,725	275,778
Writing & Related Paper	54,691	183,869	67,542	226,932	91,722	252,125
Packaging and Industrial Paper	118,981	240,543	112,755	261,825	133,173	320,291
Tissue Paper	72,716	122,991	78,671	146,922	83,013	159,037
PAPERBOARD PRODUCTS, TOTAL	101,144	196,090	126,515	253,353	144,334	276,467

* Includes Mixtures and Screenings ** Transferred to SIC 24 N.A. Not applicable

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000) $140,540 $151,879 $170,733

RS - Revised Series. International Harmonized System used after 1988.

Chart 7

U.S. IMPORTS EXCLUDING NEWSPRINT

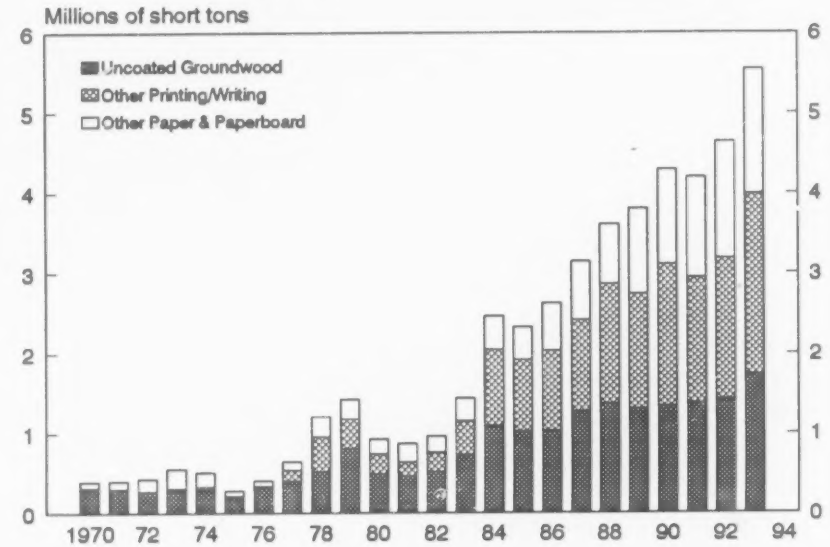


Chart 8

U.S. EXPORTS OF PAPER AND PAPERBOARD

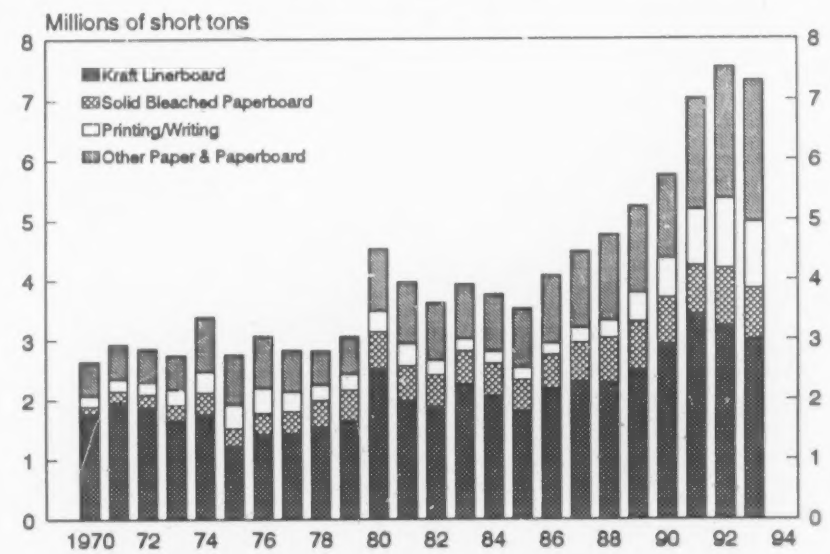


Chart 9

U.S. EXPORTS OF TOTAL PAPER AND TOTAL PAPERBOARD

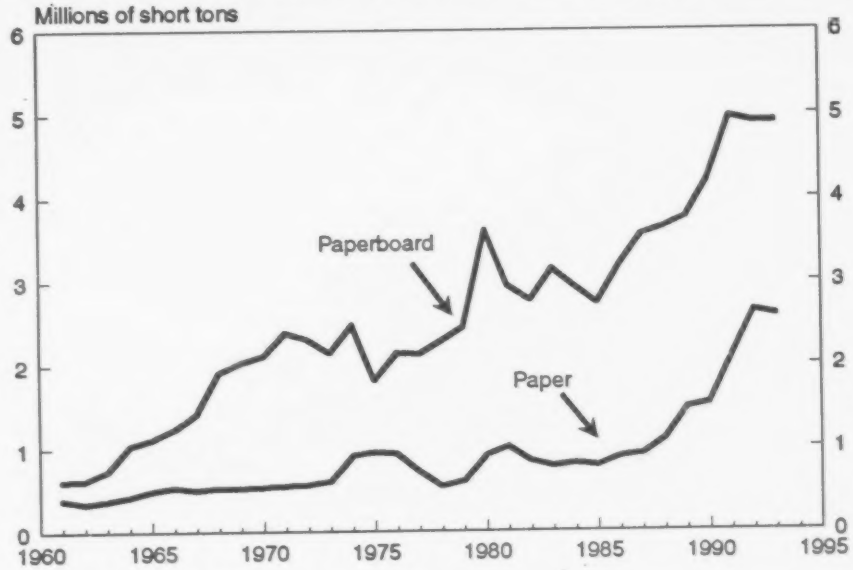


Chart 10

U.S. EXPORTS OF TOTAL WOOD PULP AND RECOVERED PAPER

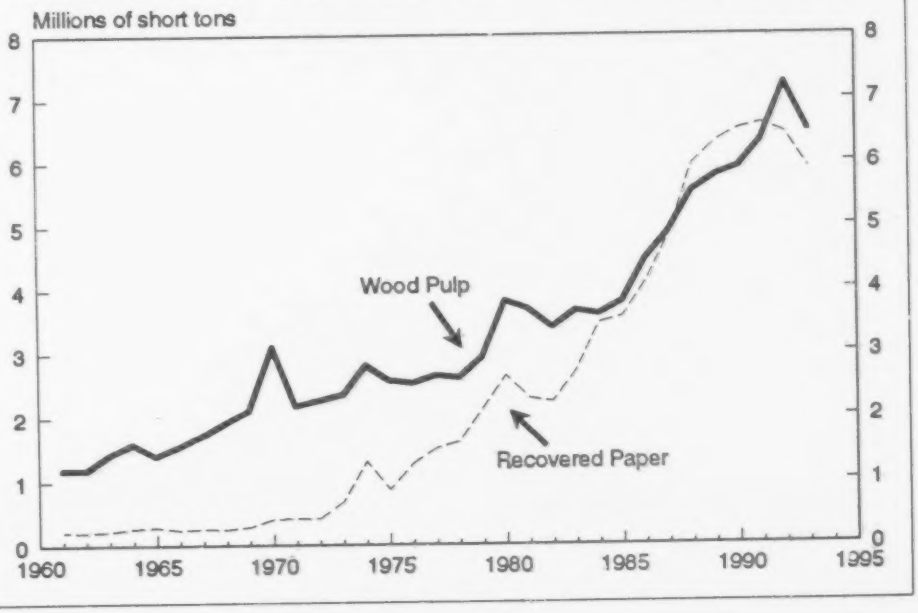


TABLE XII
EXPORTS
WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS
1988 - 1993

	1988		1989 RS		1990 #	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**17,061,210**	**7,476,535**	**18,168,349**	**8,627,810**	**19,342,230**	**9,126,308**
WOOD PULP ALL GRADES, TOTAL	**5,528,292**	**2,914,522**	**5,766,914 R**	**3,512,604**	**5,905,338**	**3,155,671**
Dissolving and Special Alpha	864,924	503,610	797,819	571,681	781,598	504,092
Sulfite, Paper Grades, Total	422,273	193,618	369,246	230,575	407,262	210,864
Bleached	392,117	179,384	352,376	222,310	388,633	204,867
Unbleached	30,156	14,234	16,870	8,265	18,629	5,997
Sulfate and Soda, Paper Grades, Total	4,190,314	2,196,460	4,543,603	2,690,692	4,672,877	2,428,257
Bleached	3,990,532	2,107,402	4,368,172	2,618,670	4,449,534	2,349,195
Semi-Bleached	25,777	7,099	15,100	7,610	36,801	12,803
Unbleached	174,005	81,959	160,331	64,412	186,542	66,259
Mechanical, Semi-Chemical & Other	50,781	20,834	55,246	19,656	43,601	12,458
COTTON PULP & OTHER FIBER	**201,567**	**111,923**	**122,045**	**100,510**	**135,632**	**104,808**
WASTE PAPER	**5,640,118**	**688,258**	**5,980,620**	**729,797**	**6,504,870**	**778,687**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**5,691,233**	**3,752,662**	**6,299,770**	**4,261,034**	**6,796,390**	**5,035,178**
PAPER, PAPERBOARD AND OTHER, TOTAL	**4,876,564**	**2,701,406**	**5,259,734**	**2,982,685**	**5,748,622**	**3,449,743**
PAPER PLUS PAPERBOARD	**4,744,688**	**2,632,346**	**5,223,457**	**2,967,928**	**5,738,751**	**3,443,249**
PAPER, TOTAL	**1,102,489**	**988,031**	**1,465,752**	**1,233,528**	**1,519,052**	**1,455,104**
Newsprint	427,296	295,474	624,798	357,381	535,993	293,182
Printing & Writing Paper, Total	287,207	313,047	478,200	465,168	664,824	717,699
Uncoated Groundwood	70,286	58,639	88,056	64,766	75,299	63,574
Coated Printing and Converting	97,463	79,730	168,538	131,418	218,684	215,289
Coated Groundwood	46,211	39,955	117,002	81,378	136,957	121,609
Coated Book (1989-93 Coated Free Sheet)	51,252	39,775	51,536	50,040	81,727	93,680
Uncoated Free Sheet	82,660	124,049	122,346	166,830	232,369	306,127
Cotton Fiber (1989-93 Inc. in Unc. Free Sheet)	6,026	8,687	695	1,861	443	884
Thin (ex. cigarette)	28,129	39,532	40,552	56,423	45,631	56,795
Bristols	2,643	2,410	46,721	34,053	75,171	61,870
Other	Not Applicable		11,987	11,678	17,671	14,044
Packaging & Industrial Paper, Total	346,718	342,117	342,042	380,790	283,583	403,949
Unbl. Kraft Pkg & Ind.Conv., Total	110,075	54,975	125,818	60,318	112,828	60,480
Unbleached Kraft exc. Ship. Sack	24,429	19,729	30,482	18,856	32,646	23,265
Shipping Sack	85,646	35,246	95,336	41,462	80,182	37,214
Glassine, Greaseproof & Veg. Parch.	32,336	37,146	8,729	7,106	4,875	7,433
Bleached Kraft	19,723	11,381	62,625	34,616	30,702	27,651
Special Industrial, Total	184,584	238,615	144,870	278,750	135,178	308,386
Tissue Paper	41,268	37,393	20,712	30,187	34,651	40,273
PAPERBOARD TOTAL	**3,642,199**	**1,644,315**	**3,757,705**	**1,734,402**	**4,219,699**	**1,988,145**
Kraft Linerboard (a)	2,281,362	887,646	2,499,716	935,364	2,924,140	1,076,705
Other Kraft Paperboard (Unbleached)	292,437	102,638	246,575	113,315	253,945	144,169
Corrugating Medium Semichemical	42,360	18,060	31,162	14,494	50,466	17,769
Bleached Packaging Paperboard, Total	742,919	502,514	795,305	582,978	764,550	628,859
Milk Carton	504,372	337,463	529,237	392,697	452,637	378,050
Folding Boxboard	193,105	133,872	193,818	148,479	186,026	160,199
Plate, Dish, Tray & Cup	26,796	18,289	20,575	16,548	22,232	19,802
Other	18,646	12,890	51,675	25,254	103,655	70,809
Recycled Furnish Paperboard, Total	283,121	133,257	184,947	88,251	226,598	120,643
Boxboard & Related Boards (b)	95,232	46,115	21,783	12,514	57,139	29,066
Containerboard	68,142	26,496	89,098	32,883	54,956	19,279
Other Paperboard	119,747	58,646	74,066	42,854	114,503	72,307
WET MACHINE BOARD	**11,691**	**4,915**	**2,889**	**1,256**	**487**	**232**
CONSTRUCTION PAPER & BOARD, TOTAL	**120,185**	**64,145**	**33,388**	**13,501**	**9,384**	**6,262**
Building Paper ***	34,852	24,893	33,388	13,501	9,384	6,262
Insulating & Other Building Board	85,333	39,252	***	***	***	***
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**814,669**	**1,051,256**	**1,040,036**	**1,278,349**	**1,047,768**	**1,585,436**
PAPER PRODUCTS, TOTAL	**367,548**	**682,281**	**473,435**	**832,806**	**440,793**	**1,012,642**
Cig. Paper Cut to Size, Books, etc.	22,307	59,627	22,808	62,101	23,564	80,377
PAPERBOARD PRODUCTS, TOTAL	**447,121**	**368,975**	**566,601**	**445,543**	**606,975**	**572,793**

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $9,170 $23,665 $49,964

(a) Contains Bleached Kraft Linerboard reported as follows: (Tons) 1988 - 140,801; 1989 - 283,113; 1990 - 335,444; 1991 - 384,797.
(b) Excludes Recycled Corrugating Medium. *** Insulating & Other Building Board transferred to SIC 24. # 1990 Export data not fully comparable with 1989 (see page 71). R - Revised RS - International Harmonized System used after 1988.

TABLE XII (Cont.)
EXPORTS
WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS
1988 - 1993

	1991		1992		1993	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	21,375,102	9,677,764	22,756,587	10,319,270	21,637,887	9,613,445
WOOD PULP ALL GRADES, TOTAL	6,337,525	2,799,620	7,222,257	3,114,419	6,499,065	2,369,414
Dissolving and Special Alpha	771,703	485,948	801,217	485,648	648,585	407,478
Sulfite, Paper Grades, Total	370,455	173,233	517,013	218,274	476,579	173,830
Bleached	353,716	168,207	504,718	215,039	466,744	171,372
Unbleached	16,739	5,026	12,295	3,235	9,835	2,458
Sulfate and Soda, Paper Grades, Total	5,145,098	2,125,289	5,803,584	2,382,716	5,270,308	1,757,751
Bleached	4,891,401	2,049,475	5,577,652	2,309,594	5,020,920	1,696,726
Semi-Bleached	72,180	14,744	67,481	22,444	115,415	26,744
Unbleached	181,517	61,070	158,871	50,678	133,973	34,279
Mechanical, Semi-Chemical & Other	50,269	15,151	100,043	27,781	103,593	30,354
COTTON PULP & OTHER FIBER	108,516	89,236	115,956	92,001	124,658	83,505
WASTE PAPER	6,597,708	715,188	6,447,656	643,516	6,888,369	633,240
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	8,331,353	6,006,422	8,970,719	6,391,924	9,125,797	6,541,052
PAPER, PAPERBOARD AND OTHER, TOTAL	7,042,569	4,067,385	7,559,283	4,305,068	7,521,370	4,236,810
PAPER PLUS PAPERBOARD	7,022,456	4,056,034	7,534,617	4,292,616	7,494,888	4,223,965
PAPER, TOTAL	2,071,696	1,809,482	2,635,057	2,061,389	2,586,990	2,066,657
Newsprint	743,169	387,924	1,022,756	467,357	1,019,146	496,060
Printing & Writing Paper, Total	932,569	905,824	1,158,187	1,022,740	1,120,438	980,130
Uncoated Groundwood	116,623	88,003	116,020	82,732	109,386	75,504
Coated Printing and Converting	276,852	253,134	360,796	304,699	342,035	282,860
Coated Groundwood	163,302	134,764	205,677	158,596	197,097	146,544
Coated Book (1989-93 Coated Free Sheet)	113,550	118,370	155,119	146,103	144,938	136,316
Uncoated Free Sheet	356,358	402,979	448,985	446,094	425,310	435,213
Cotton Fiber (1989-93 Inc. in Unc. Free Sheet)	377	824	481	913	3,334	3,764
Thin (ex. cigarette)	80,840	78,386	124,607	107,153	111,822	94,946
Bristols	91,050	74,427	96,518	73,195	123,993	84,957
Other	10,846	8,895	11,261	8,867	7,892	6,650
Packaging & Industrial Paper, Total	329,483	444,641	381,840	483,062	379,091	501,465
Unbl. Kraft Pkg & Ind.Conv., Total	132,430	74,467	141,105	73,814	130,746	66,917
Unbleached Kraft exc. Ship. Sack	48,829	33,797	61,842	39,462	62,452	37,191
Shipping Sack	83,601	40,670	79,263	34,352	68,294	29,725
Glassine, Greaseproof & Veg. Parch.	4,283	8,383	4,606	8,916	6,425	11,468
Bleached Kraft	45,313	40,060	67,028	55,864	47,683	45,007
Special Industrial, Total	147,457	321,731	169,101	344,467	194,237	378,073
Tissue Paper	66,475	71,093	72,274	88,230	68,315	89,002
PAPERBOARD TOTAL	4,950,760	2,246,552	4,899,560	2,231,226	4,907,898	2,167,308
Kraft Linerboard (a)	3,412,141	1,200,615	3,224,393	1,107,369	2,995,058	931,801
Other Kraft Paperboard (Unbleached)	402,484	222,856	398,633	211,163	505,984	255,357
Corrugating Medium Semichemical	84,432	26,889	75,598	23,928	118,595	36,964
Bleached Packaging Paperboard, Total	818,494	662,950	958,950	751,904	1,025,862	776,502
Milk Carton	444,237	373,385	496,909	404,237	485,502	372,530
Folding Boxboard	241,843	204,537	256,766	216,896	324,531	269,450
Plate, Dish, Tray & Cup	21,607	19,302	30,763	24,657	33,693	24,570
Other	110,807	65,726	174,512	106,114	182,136	109,952
Recycled Furnish Paperboard, Total	233,209	133,242	241,986	136,862	262,399	156,685
Boxboard & Related Boards (b)	59,052	29,885	56,965	28,985	71,707	36,161
Containerboard	57,459	28,135	43,638	21,879	65,633	33,008
Other Paperboard	116,698	75,222	141,383	85,996	125,059	87,516
WET MACHINE BOARD	955	433	883	289	596	400
CONSTRUCTION PAPER & BOARD, TOTAL	19,258	10,918	23,783	12,164	25,886	12,445
Building Paper ***	19,258	10,918	23,783	12,164	25,886	12,445
Insulating & Other Building Board	***	***	***	***	***	***
PAPER AND PAPERBOARD PRODUCTS, TOTAL	1,288,684	1,939,037	1,411,436	2,086,856	1,604,427	2,304,242
PAPER PRODUCTS, TOTAL	590,909	1,281,732	638,804	1,347,561	750,263	1,469,052
Cig. Paper Cut to Size, Books, etc.	26,495	85,314	22,434	69,798	19,307	55,938
PAPERBOARD PRODUCTS, TOTAL	697,775	657,305	772,632	739,295	854,164	835,190

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $67,298 $77,411 $86,234

(a) Contains Bleached Kraft Linerboard reported as follows: (Tons) 1988 - 140,801; 1989 - 283,113; 1990 - 335,444; 1991 - 384,797.

(b) Excludes Recycled Corrugating Medium. *** Insulating & Other Building Board transferred to SIC 24.

TABLE XIII
VALUE OF SHIPMENTS OF PRODUCT CLASSES
1985 - 1991
(Millions of Dollars)

1982 - 1958 SIC CODE		1987 SIC CODE	1985	1986	1987	1988	1989	1990	1991
	PAPER AND ALLIED PRODUCTS	26	$90,541	$94,625	$105,399	$118,725	$127,288	$127,526	$124,858
2611-	Pulp Mill Products	2611-	3,630	4,189	5,357	6,686	7,719	6,917	5,741
26111	Special Alpha and Dissolving Woodpulp	26111	562	588	687	856	1,029	976	905
26113	Sulfate Wood Pulp	26113	2,627	3,140	4,124	5,148	5,896	5,155	4,152
26114	Sulfite and Other Wood Pulp	26114	228	212	248	336	376	372	270
26116	Pulp, Other Than Wood, and Pulpmill Byproducts, n.e.c.	26116	208	249	298	344	418	412	413
26110	Pulp Mill Products, n.s.k.	26110	5	0	1	2	1	2	1
2621-	Papermill Products, except Building Paper		23,631	24,477	26,994	31,790	33,293	33,618	31,499
	Papermill Products	2621- (2)	23,790	24,614	27,122	31,923	33,404	33,715	31,591
26211	Newsprint	26211	2,385	2,410	2,766	3,168	2,989	3,158	3,105
26212	Uncoated Groundwood Papers	26212	996	942	934	1,131	1,187	1,168	1,036
26213	Clay Coated Printing and Converting Papers	26213	5,369	5,469	5,959	7,431	7,485	7,680	7,358
26214	Uncoated Free Sheet	26214	6,648	7,330	8,143	9,640	10,071	10,148	9,225
26215	Bleached Bristols, Excluding Cotton Fiber Index and Bogus	26215	674	697	778	923	1,062	1,045	1,039
26216	Cotton Fiber Papers and Thin Papers	26216	685	723	738	876	887	907	848
26217	Unbleached Kraft Packaging and Indust. Converting Papers	26217	1,102	1,126	1,314	1,480	1,520	1,374	1,212
26218	Pkg. and Ind. Conv. Papers, Exc. Unbl. Kraft	26218	880	870	953	1,120	1,123	1,185	1,118
26219	Special Industrial Papers	26219	1,007	997	1,059	1,176	1,171	1,212	1,148
2621A	Tissue Papers and Other Machine Creped Papers	2621A	3,843	3,884	4,257	4,730	5,719	5,639	5,294
26210	Paper Mill Products, n.s.k.	26210	41	30	92	116	79	103	118
26612	Construction Papers	2621B	159	137	128	133	111	98	92
2631-	Paperboard Mill Products	2631-	10,574	11,317	13,697	15,497	16,352	15,985	15,557
26311	Unbleached Kraft Pkg. and Ind. Conv. Paperboard	26311	4,655	5,111	6,416	7,216	7,430	7,110	6,928
26312	Bleached Packaging and Industrial Converting Paperboard	26312	2,077	2,286	2,559	3,022	3,496	3,589	3,600
26313	Semichemical Paperboard	26313	1,224	1,344	1,608	1,895	1,886	1,731	1,518
26314	Recycled Paperboard	26314	2,513	2,475	2,997	3,243	3,424	3,435	3,390
26318	Wet Machine Board	26318	78	67	64	60	64	- $ -	- $ -
26310	Paperboard Mill Products, n.s.k.	26310	27	35	54	63	53	57	58
265-	Paperboard Containers and Boxes	265-	22,180	22,506	25,095	27,405	29,524	29,639	29,618
26510	Bending Paperboard Packaging and Packaging Components		4,452	4,575	4,615	5,866	6,567	6,794	7,200
	Folding Paperboard Boxes	2657-			5,522	5,866	6,567	6,794	7,200
26520	Setup Paperboard Boxes	26520	481	522	518	520	574	602	599
26530	Corrugated and Solid Fiber Boxes, Including Pallets	26530	12,715	13,038	15,602	17,335	18,325	17,979	17,434
2654-	Sanitary Food Containers		2,853	2,806	2,866	2,097	2,309	2,469	2,583
	Sanitary Food Containers, Except Folding Boxes	2656-	2,114	2,072	1,960	2,097	2,309	2,469	2,583
26541	Milk and Milk-Type Paperboard Cartons	26561	590	569	559	578	614	635	645
26542	Cups and Liquid-Tight Paper and Paperboard Containers	26562	1,076	1,060	849	924	1,019	1,125	1,163
26544	Folding Sanitary Food Containers for Liquid, Etc.	(3)	739	734	906	N.A.	N.A.	N.A.	N.A.
26545	Other San. Food Paper & Paperb'd F.C., Boards, & Trays	26563	399	396	476	529	601	632	694
26540	Sanitary Food Containers, Except Folding (Paperb'd) n.s.k.	26560	49	47	77	68	75	77	82
2655-	Fiber Cans, Drums, and Similar Products	2655-	1,679	1,564	1,494	1,586	1,750	1,795	1,802
26551	Paperboard Fiber Drums	26551	333	315	312	340	384	382	375
26552	Fiber Cans, Tubes, and Similar Fiber Products	26552	1,266	1,176	1,070	1,145	1,243	1,277	1,301
26550	Fiber Cans, Drums and Similar Products, n.s.k.	26550	80	73	112	102	123	137	126
264-	Miscellaneous Converted Paper Products	267-	30,367	32,000	34,128	37,214	40,267	41,271	42,151
2641-	Coated and Glazed Paper		6,654	7,100	7,958	8,861	9,524	9,658	10,003
		2671-	1,827	2,082	2,460	2,713	2,850	2,980	3,069
26415	Sgl Web Paper, (Ctd. Rolls & Shts., Incl. Waxed, for Pkg. Uses)	26711	550	607	474	610	644	637	628
26416	Single Web Film (Ctd. R&S, Incl. co-extruded, for Pkg. Uses	26712	345	414	879	904	1,021	1,011	1,001
26419	Paper/Paper Multiweb Laminations for Packaging Uses	26713	181	197	249	229	207	235	242
2641A	Multiweb Laminated R&S, Exc. Ppr/Ppr & Foil, for Pkg. Uses	26714	752	864	858	966	921	976	1,076
	Paper Coating and Laminating, Packaging, n.s.k.	26710	--	--	--	4	57	121	124
	Paper Coating and Laminating, n.e.c.	2672-	4,827	5,018	5,498	6,148	6,674	6,678	6,933
26411	Prtg Pap. Ctd. at Est. Other than where paper was produced	26721	394	373	465	414	486	454	360
26413	Gummed Products	26722	203	192	218	231	245	249	246
26414	Pressure Sensitive Products	26723	2,661	2,728	3,100	3,643	3,896	3,882	4,152
2641B	Other Coated and Processed Paper, Except for Packaging	26724	1,215	1,348	1,200	1,301	1,380	1,464	1,510
	Paper Coating and Laminating, n.e.c., n.s.k. (3)	26720	N.A.	N.A.	515	560	667	630	666
26410	Coated and Glazed Paper, n.s.k.		354	378	N.A.	N.A.	N.A.	N.A.	N.A.
2643-	Bags, Except Textile Bags		5,542	5,839	6,297	7,132	7,756	7,749	7,334
	Bags: Plastics, Laminated, and Coated	2673-	3,573	3,943	3,937	4,558	5,117	5,128	4,807
26435	Specialty Bags and Liners, Single Web Paper, Coated	26731	265	235	262	272	356	336	282
26436	Specialty Bags and Liners, Single Web Film	26732	2,627	2,922	2,857	3,413	3,837	3,835	3,684
26437	Specialty Bags and Liners, Multiweb Lamination and Foil	26733	242	371	388	425	406	429	331
26430	Bags, Except Textile Bags, n.s.k.	26730	439	415	430	448	520	528	509
	Bags: Uncoated Paper and Multiwall	2674-	1,969	1,896	2,361	2,574	2,639	2,621	2,528
26434	Grocer's Bags and Sacks, Variety, Shopping, Uncoated	26741	1,085	1,007	1,142	1,167	1,249	1,175	1,045
26438	Shipping Sacks and Multiwall Bags, Except Textiles	26742	885	889	1,197	1,375	1,353	1,398	1,433
	Bags, Uncoated and Multiwall, n.s.k.	26740	N.A.	N.A.	22	32	37	48	50
2645-	Die-Cut Paper and Board	2675-	1,651	1,690	1,701	1,866	1,962	2,093	2,207
26453	Die-Cut Paper and Board Office Supplies	26751	619	643	693	948	891	927	946
26454	Die-Cut Paper and Board Products (Other than Office)	26752	266	298	164	184	202	199	221
26455	Pasted, Lined, Laminated, or Surface-Coated Paperboard	26753	592	568	458	530	565	629	646
26450	Die-Cut Paper and Board Products, n.s.k.	26750	175	182	186	205	304	338	393
2647-	Sanitary Paper Products	2676-	10,194	10,732	11,172	11,853	13,637	14,008	14,756
26471	Sanitary Napkins and Tampons	26761	1,167	1,334	1,350	1,262	1,314	1,361	1,421
26473	Disposable Diapers	26763	2,609	2,923	3,203	3,224	3,952	4,106	4,687
26474	Sanitary Tissue Health Products	26764	6,338	6,378	6,503	7,250	8,262	8,449	8,562
26470	Sanitary Paper Products, n.s.k.	26760	80	97	116	118	109	92	86
26420	Envelopes (Excluding Stationery Envelopes)	2677-	2,086	2,230	2,500	2,650	2,604	2,602	2,492
2648-	Stationery Products	2678-	1,107	1,192	1,115	1,166	1,157	1,197	1,237
26481	Stationery	26781	315	342	283	304	307	342	396
26482	Tablets and Related Products	26782	687	760	706	736	748	749	733
26480	Stationery Products, n.s.k.	26780	106	90	126	126	102	106	106
2649-	Converted Paper Products n.e.c.	2679-	3,133	3,217	3,386	3,686	3,627	3,964	4,122
26493	Wallcoverings	26791	540	520	530	534	518	548	558
26494	Gift Wrap Paper	26792	513	565	592	571	591	621	626
26496	Paper Business Machine Supplies, Office Supplies, n.e.c.	26793	196	199	229	256	340	367	348
2646-	Pressed and Molded Pulp Goods	26794	260	270	273	288	326	370	391
26497	Other Converted Paper and Board Products	26795	1,212	1,251	1,228	1,476	1,364	1,490	1,533
26490	Converted Paper Products, n.e.c., n.s.k.	26790	413	413	534	561	488	568	667

SOURCE: Survey of Manufactures - Bureau of Census. (1) 1987 code includes construction papers. (2) SIC Codes 26570, 86, 88, 84, 90, part of 2657; not included in 2656. (3) Incl. 26710 - Paper coating and laminating, n.s.k. n.e.c. - Not elsewhere classified. n.s.k. - Not specifically known.
N.A. - Not available. $ - Estimate did not meet publication standards.

SECTION II

REGIONAL DATA

The American Forest and Paper Association's Economics Department has compiled estimates of 1992 regional paper and paperboard production, wood pulp production, together with pulpwood and recovered paper consumption, based on data reported to the AF&PA as part of the Capacity Survey (Table XIV).

The table below compares the production of paper and paperboard in each of the four Census regions with consumption of pulpwood and recovered paper. It highlights the importance of the South in paper and paperboard production and pulpwood consumption, as well as the relative importance of recovered paper as a fibrous raw material in other regions.

State Data 1992
Regional Distribution

	PULPWOOD CONSUMPTION	RECOVERED PAPER CONSUMPTION	TOTAL PAPER AND PAPERBOARD
NORTHEAST	7.4%	16.8%	12.8%
NORTH CENTRAL	7.1%	29.9%	18.1%
SOUTH	74.8%	35.6%	55.1%
WEST	10.7%	17.7%	14.0%
TOTAL	100.0%	100.0%	100.0%

The Charts on page 43 picture the distribution of wood pulp and of paper and paperboard capacity in the nine Census divisions for the year 1992. The table below presents the percentage distributions of paper, paperboard and wood pulp capacity in 1992 and 1996 (see Table XV).

The South's share of U.S. paper and paperboard capacity is expected to remain fairly stable between 1992 and 1996, edging up from 54.1% to 54.2%. The North Central region will add 0.3 percentage point to its relative share while the Northeast and Mountain and Pacific regions will see their respective market shares edge down slightly. The South accounted for 70.4% of U.S. wood pulp capacity in 1992 and is expected to account for the same portion of the national total in 1996.

PAPER, PAPERBOARD AND WOOD PULP CAPACITY
BY CENSUS REGION AND DIVISION

	TOTAL ALL GRADES		TOTAL PAPER		TOTAL PAPERBOARD		TOTAL OTHER		TOTAL WOOD PULP	
	Percentage Distribution									
	1992	1996	1992	1996	1992	1996	1992	1996	1992	1996
UNITED STATES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NORTHEAST	13.5	13.3	21.0	20.6	5.7	6.2	17.3	17.1	7.1	7.4
NEW ENGLAND	7.0	6.8	11.8	11.5	2.3	2.5	2.5	2.4	5.2	5.2
MIDDLE ATLANTIC	6.5	6.5	9.2	9.1	3.4	3.7	14.8	14.7	1.9	2.2
NORTH CENTRAL	18.4	18.7	23.2	23.5	13.3	13.7	23.0	23.5	7.5	7.5
EAST NORTH CENTRAL	15.7	15.6	19.3	19.5	12.1	11.9	14.6	14.9	6.0	5.9
WEST NORTH CENTRAL	2.7	3.0	3.9	4.0	1.2	1.8	8.4	8.5	1.5	1.6
SOUTH	54.1	54.2	42.1	42.4	66.2	65.7	55.3	55.1	70.4	70.4
SOUTH ATLANTIC	24.5	23.9	17.6	17.1	31.6	30.6	21.6	21.8	32.1	31.5
EAST SOUTH CENTRAL	14.0	14.3	11.6	12.5	16.2	15.9	18.4	18.1	19.9	20.1
WEST SOUTH CENTRAL	15.6	16.0	13.0	12.8	18.3	19.1	15.4	15.2	18.4	18.7
MOUNTAIN AND PACIFIC	14.0	13.8	13.7	13.5	14.8	14.5	4.4	4.3	15.0	14.8

TABLE XIV

STATE DATA - 1992 (1)

GEOGRAPHIC AREAS	Pulpwood Consumption	Wood Pulp Production	Mills	Recovered Paper Consumption	Total Paper & Paperboard Production (2)	Mills (3)	Paper Production	Mills	Paperboard Production	Mills
	(Cords)*	(000 Tons)		(000 Tons)	(000 Tons)		(000 Tons)		(000 Tons)	
UNITED STATES, TOTAL	105,275,000	65,943	201	26,434	82,958	498	40,973	320	41,985	220
Northeast	7,751,000	4,505	25	4,438	10,625	157	8,325	114	2,301	44
New England	5,355,000	3,245	15	1,672	5,681	71	4,733	58	948	14
Maine	4,647,000	(D)	12	409	(D)	17	3,689	16	(D)	1
New Hampshire	N.A.	(D)	3	141	(D)	12	344	10	(D)	2
Vermont	N.A.	-	-	115	(D)	6	250	5	(D)	1
Massachusetts	N.A.	-	-	527	738	28	451	24	288	5
Connecticut	N.A.	-	-	479	(D)	8	(Inc. in VT)	3	433	5
Middle Atlantic	2,396,000	1,259	10	2,766	4,944	86	3,592	56	1,352	30
New York	985,000	539	4	867	1,937	45	1,619	35	318	10
New Jersey	-	-	-	839	799	14	447	6	352	8
Pennsylvania	1,411,000	721	6	1,060	2,208	27	1,526	15	682	12
North Central	7,508,000	4,901	38	7,907	15,021	137	9,406	84	5,615	57
East North Central	N.A.	3,881	29	7,168	12,824	124	7,720	77	5,104	51
Ohio	761,000	704	5	1,724	2,393	29	1,061	13	1,331	17
Indiana	N.A.	(Inc. in OH)	1	889	(D)	10	(Inc. in IL)	3	796	8
Illinois	N.A.	-	-	776	702	9	292	4	409	5
Michigan	2,144,000	1,320	6	1,619	3,387	33	1,758	20	1,629	14
Wisconsin	3,030,000	1,857	17	2,161	5,547	43	4,608	37	939	7
West North Central	N.A.	1,020	9	739	2,197	13	1,686	7	511	6
Minnesota	1,464,000	(D)	7	567	(D)	9	1,686	7	(D)	2
Iowa	N.A.	(D)	1	(Inc. in MN)	(D)	2	-	-	(D)	2
Missouri	N.A.	(D)	1	(Inc. in KS)	(D)	1	-	-	(D)	1
Kansas	N.A.	-	-	173	(D)	1	-	-	(D)	1
South	78,732,000	47,216	104	9,417	45,683	144	17,891	85	27,792	87
South Atlantic	34,693,000	21,508	44	4,933	20,516	69	7,534	37	12,982	45
Delaware	N.A.	-	-	(Inc. in MD)	(D)	3	(Inc. in VA)	3	-	-
Maryland	(Inc. in VA)	(Inc. in VA)	1	175	0	3	(Inc. in VA)	1	(D)	2
Virginia	4,699,000	3,116	7	992	3,920	11	1,536	5	2,385	9
West Virginia	N.A.	-	-	(Inc. in VA)	(D)	2	-	-	(D)	2
North Carolina	6,486,000	2,662	5	482	2,279	11	1,035	8	1,244	7
South Carolina	5,721,000	4,031	8	588	3,698	10	1,923	7	1,775	5
Georgia	11,427,000	7,520	14	2,182	7,157	20	2,047	9	5,111	14
Florida	6,360,000	4,178	9	515	3,301	9	993	4	2,308	6
East South Central	26,966,000	13,466	32	2,173	11,977	41	4,864	24	7,112	20
Kentucky	(Inc. in TN)	679	3	(Inc. in TN)	(D)	6	416	4	(D)	2
Tennessee	3,018,000	1,454	5	920	2,294	12	986	6	1,307	6
Alabama	13,233,000	7,939	17	1,253	6,844	16	2,820	8	4,024	9
Mississippi	10,715,000	3,394	7	(Inc. in AL)	(D)	7	643	6	(D)	3
West South Central	17,073,000	12,242	28	2,311	13,191	34	5,493	24	7,698	22
Arkansas	3,854,000	2,792	7	261	2,773	7	1,617	5	1,156	4
Louisiana	8,641,000	5,598	10	794	6,283	11	2,212	8	4,070	9
Oklahoma	(Inc. in TX)	789	3	762	1,350	6	330	4	1,020	3
Texas	4,578,000	3,063	8	494	2,785	10	1,333	7	1,452	6
West	11,284,000	9,321	34	4,672	11,628	60	5,351	37	6,277	32
Mountain	N.A.	1,212	3	563	1,579	6	423	4	1,156	4
Montana	N.A.	(D)	1	(D)	(D)	1	-	-	(D)	1
Idaho	N.A.	(D)	1	(D)	(D)	2	(D)	2	(D)	1
Colorado	N.A.	-	-	(D)	(D)	1	-	-	(D)	1
Arizona	N.A.	(D)	1	(D)	(D)	2	(D)	2	(D)	1
New Mexico	N.A.	-	-	(D)	-	-	-	-	-	-
Pacific	N.A.	8,110	31	4,109	10,049	54	4,928	33	5,122	28
Washington	5,722,000	4,408	16	788	4,122	17	2,739	15	1,383	7
Oregon	3,040,000	2,740	10	1,177	3,798	12	1,661	9	2,137	5
California	N.A.	962	3	2,144	2,130	25	527	9	1,602	16
Alaska	N.A.	(Inc. in CA)	2	-	(D)	1	-	-	-	-

SOURCE: Pulpwood - American Pulpwood Association. Paper and Paperboard, Wood Pulp, Recovered Paper - AF&PA.

NOTE: (D) - Withheld to avoid disclosure * - 128 Cu. Ft. roughwood basis. N.A. - Not Available - = 0 (1) - Excludes Puerto Rico

(2) - Total including wet machine board, construction paper and insulating board = 84,558,000 tons. (3) Total number of mills = 547.

Chart 11

WOOD PULP REGIONAL CAPACITY - 1992

Total = 68,700,000 Tons

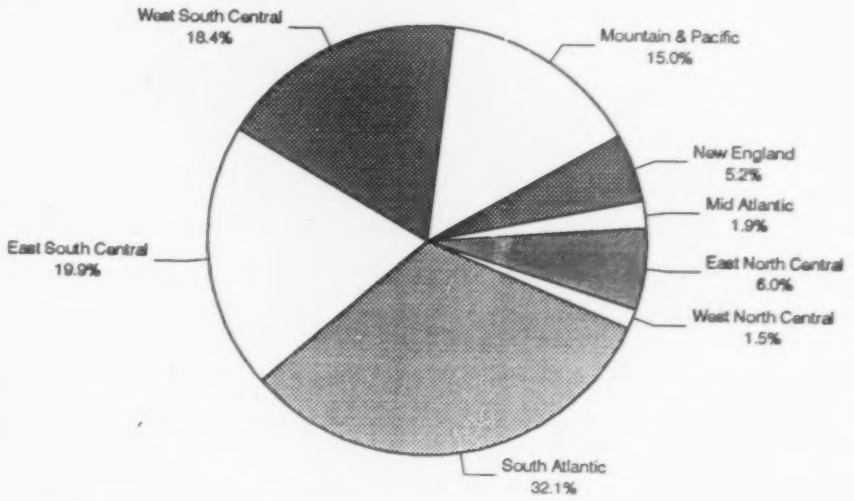


Chart 12

PAPER AND PAPERBOARD REGIONAL CAPACITY - 1992

Total = 89,466,000 Tons

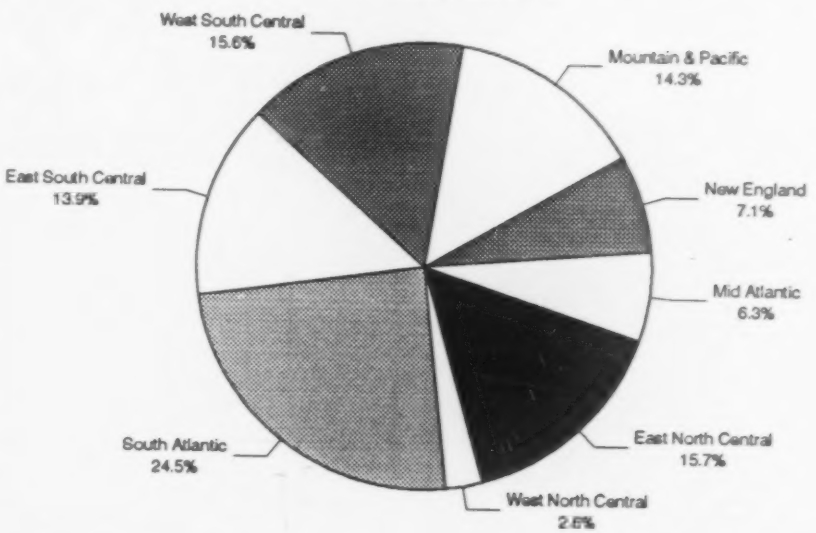


TABLE XV

PAPER, PAPERBOARD AND WOOD PULP CAPACITY BY CENSUS DIVISION

1970, 1980, 1990, 1992, 1996

Annual Capacity - 000 Short Tons

	PAPER AND PAPERBOARD TOTAL	PAPER					PAPERBOARD			
		Total	Newsprint	Printing Writing & Related	Packaging & Industrial Converting	Tissue	Total	Unbleached Kraft Total	Kraft Liner-Board	Solid Bleached
New England										
1970 *	4,555	3,660	417	2,419	367	457	895	-	-	34
1980	5,535	4,644	323	3,322	459	541	891	-	-	N.A.
1990	6,219	5,229	N.A.	3,876	467	540	990	-	-	-
1992	6,318	5,295	N.A.	4,061	441	532	1,023	-	-	-
1996 P	6,659	5,448	N.A.	4,295	461	524	1,211	-	-	-
Middle Atlantic										
1970 *	5,498	3,411	149	1,926	300	1,036	2,087	-	-	-
1980	5,802	3,890	N.A.	2,312	224	1,155	1,912	-	-	-
1990	5,442	3,986	N.A.	2,411	319	1,033	1,456	-	-	-
1992	5,648	4,133	N.A.	2,386	389	1,117	1,515	-	-	-
1996 P	6,118	4,312	N.A.	2,548	385	1,136	1,806	-	-	-
East North Central										
1970 *	9,091	5,070	113	3,197	628	1,132	4,021	-	-	-
1980	10,440	6,202	140	4,056	768	1,237	4,238	-	-	N.A.
1990	13,340	8,269	N.A.	5,515	1,035	1,522	5,071	-	-	N.A.
1992	14,065	8,685	N.A.	5,650	1,257	1,594	5,380	-	-	N.A.
1996 P	15,055	9,253	N.A.	6,172	1,236	1,723	5,802	-	-	N.A.
West North Central										
1970 *	1,032	594	-	571	23	-	438	-	-	-
1980	1,290	850	-	834	17	-	440	-	-	-
1990	2,029	1,504	-	1,475		-	525	-	-	-
1992	2,305	1,772	-	1,748	N.A.	-	533	-	-	-
1996 P	2,813	1,917	-	1,891	N.A.	-	896	-	-	-
South Atlantic										
1970 *	13,034	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1980	16,155	4,746	676	1,985	1,699	386	11,409	7,469	6,945	1,788
1990	20,260	6,923	1,304	3,493	1,362	764	13,337	8,918	8,391	1,776
1992	21,944	7,898	1,605	4,056	1,346	891	14,046	9,163	8,656	1,938
1996 P	23,068	8,103	1,632	4,206	1,324	941	14,965	8,925	8,151	2,235
East South Central										
1970 *	6,231	2,792	833	747	739	473	3,439	2,232	2,168	626
1980	8,152	3,408	1,061	1,335	506	505	4,744	3,008	2,679	717
1990	11,646	4,975	1,375	2,711	205	684	6,671	4,412	3,891	794
1992	12,427	5,203	1,387	2,884	177	755	7,224	4,766	4,057	851
1996 P	13,706	5,929	1,358	3,545	174	852	7,777	4,970	4,141	863
West South Central										
1970 *	6,360	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1980	9,631	4,437	1,159	1,504	1,445	329	5,194	2,964	2,484	1,197
1990	13,045	5,532	1,292	2,656	1,121	463	7,513	4,628	4,018	1,591
1992	13,996	5,834	1,304	3,042	984	504	8,162	5,229	4,628	1,599
1996 P	15,439	6,084	1,342	3,188	971	583	9,355	6,124	5,507	1,883
Mountain and Pacific										
1970 *	7,624	3,571	888	954	913	817	4,053	2,177	2,136	435
1980	9,364	4,483	1,279	1,451	953	800	4,881	2,526	2,479	441
1990	12,412	5,897	2,055	2,012	831	999	6,515	3,480	3,439	544
1992	12,763	6,164	2,321	2,019	804	1,020	6,599	3,392	3,351	557
1996 P	13,490	6,423	2,364	2,041	863	1,155	7,067	3,545	3,503	616

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.

* Total Capacity at end of year. N.A. Not Available - = Zero P - Plans as published in the December 1993 Capacity Survey.

TABLE XV (Cont.)

PAPER, PAPERBOARD AND WOOD PULP CAPACITY BY CENSUS DIVISION

1970, 1980, 1990, 1992, 1996

Annual Capacity - 000 Short Tons

	PAPERBOARD (Cont.)		CONSTRUCTION	WOOD PULP							
	Semi-Chemical	Recycled	Total Paper & Board **	Total	Dissolving	Sulphite	Bl. & Sbl. Sulfate	Unbl. Sulfate (1)	Semi-chemical	Mechanical	For Const. Grades (2)
New England											
1970 *	179	682	192	2,797	-	484	1,061	53	140	953	105
1980	N.A.	663	176	3,253	-	N.A.	1,757	70	N.A.	908	130
1990	N.A.	881	54	3,429	-	N.A.	2,112	N.A.	N.A.	959	45
1992	N.A.	899	53	3,565	-	N.A.	2,192	N.A.	N.A.	958	45
1996 P	N.A.	1,087	53	3,604	-	N.A.	2,208	N.A.	N.A.	973	45
Middle Atlantic											
1970 *	-	2,087	856	1,357	-	143	312	86	325	247	244
1980	-	1,912	651	1,465	-	245	486	-	364	221	150
1990	-	1,456	328	1,405	-	N.A.	543	-	388	172	-
1992	-	1,515	320	1,336	-	N.A.	577	-	307	157	-
1996 P	-	1,806	321	1,521	-	N.A.	795	-	277	157	-
East North Central											
1970 *	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1980	1,475	2,762	813	3,532	-	535	834	216	1,284	319	344
1990	1,910	3,160	306	4,174	-	361	1,581	N.A.	1,409	497	81
1992	1,874	3,504	316	4,127	-	377	1,607	N.A.	1,318	499	81
1996 P	2,007	3,794	327	4,102	-	321	1,632	N.A.	1,316	501	85
West North Central											
1970 *	176	262	555	959	-	44	206	24	265	266	153
1980	63	377	566	899	-	-	265	17	100	195	322
1990	N.A.	448	175	841	-	-	N.A.	N.A.	N.A.	409	46
1992	N.A.	461	181	1,027	-	-	N.A.	N.A.	N.A.	469	49
1996 P	N.A.	824	187	1,099	-	-	N.A.	N.A.	N.A.	480	49
South Atlantic											
1970 *	1,103	834	589	14,598	600	2	4,222	8,140	913	385	336
1980	1,116	1,037	790	17,364	658	-	5,842	9,014	879	509	462
1990	1,243	1,400	435	20,630	548	-	8,695	9,377	907	969	134
1992	1,163	1,782	467	22,056	459	-	9,935	9,497	835	1,221	109
1996 P	1,185	2,620	476	21,959	455	-	10,310	8,995	837	1,253	109
East South Central											
1970 *	333	248	906	7,586	285	-	2,481	2,871	429	844	676
1980	672	347	363	9,251	N.A.	-	3,956	3,435	590	852	189
1990	990	475	402	12,573	N.A.	-	6,186	4,003	660	1,107	146
1992	900	707	397	13,668	N.A.	-	7,047	4,381	660	1,104	148
1996 P	903	1,041	397	14,031	N.A.	-	7,422	4,429	648	1,045	148
West South Central											
1970 *	352	245	747	7,069	-	-	2,969	2,765	259	694	383
1980	708	326	635	10,059	-	-	3,896	4,326	620	979	238
1990	860	434	328	12,108	-	-	5,007	5,226	664	1,107	104
1992	879	455	332	12,611	-	-	5,287	5,464	671	1,083	106
1996 P	894	454	333	13,042	-	-	5,611	5,671	683	970	107
Mountain and Pacific											
1970 *	485	957	716	8,896	883	1,163	2,147	2,932	366	787	619
1980	720	1,193	352	9,391	703	885	2,658	3,273	620	1,086	163
1990	705	1,786	93	10,825	645	838	3,368	3,851	502	1,559	62
1992	805	1,845	95	10,310	673	655	3,242	3,604	492	1,583	61
1996 P	832	2,074	94	10,278	676	652	3,163	3,593	504	1,646	44

SOURCE: American Forest & Paper Association, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1993.
P - Plans as published in the December 1993 Capacity Survey.
(1) Includes screenings. (2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1980 - 1994.
* Total Capacity at end of year. ** Includes soda pulp for 1970 as follows (000 tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years, soda pulp is included in sulfate pulp.
N.A. - Not Available - = Zero

TABLE XVI
PAPER AND ALLIED PRODUCTS - 1987 DATA

	Number of Establishments	Number of All Employees (000)	Total Payroll $ Million	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
					Million Dollars			
Northeast #	**1,813**	**158.9**	**4,155.6**	**118.9**	**2,766.4**	**10,602.7**	**23,131.9**	**1,083.0**
New England #	**513**	**56.3**	**1,545.3**	**42.3**	**1,055.2**	**3,948.6**	**8,322.8**	**486.0**
Maine	37	16.2	551.0	12.7	411.3	1,474.6	3,293.6	301.3
New Hampshire	41	5.6	153.7	4.1	94.3	408.0	909.4	35.6
Vermont	19	2.2	49.6	1.8	37.1	169.4	352.3	(D)
Massachusetts	271	23.0	559.5	16.6	354	1,162.9	2,376.6	85.1
Rhode Island	48	2.0	38.6	1.6	26.7	80.1	167.4	4.3
Connecticut	97	7.3	192.9	5.5	132.3	653.6	1,223.5	59.7
Middle Atlantic	**1,300**	**102.6**	**2,610.3**	**76.6**	**1,711.2**	**6,654.1**	**14,809.1**	**597.0**
New York	596	40.0	952.9	30.6	629.6	2,156.4	4,793.2	218.5
New Jersey	337	24.8	638.9	17.8	384.0	1,517.2	3,207.9	102.9
Pennsylvania	367	37.8	1,018.5	28.2	697.6	2,980.5	6,808.0	275.6
North Central #	**1,796**	**163.0**	**4,478.5**	**123.3**	**2,588.7**	**12,476.7**	**27,689.0**	**1,096.3**
East North Central	**1,426**	**126.2**	**3,535.7**	**94.7**	**1,922.5**	**9,398.7**	**21,270.9**	**561.5**
Ohio	382	30.0	811.2	22.5	557.8	1,852.7	4,383.9	173.1
Indiana	172	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Illinois	401	32.3	787.5	24.4	0.0	1,978.9	4,419.9	(D)
Michigan	232	20.6	602.7	15.2	417.4	1,684.5	3,646.8	(D)
Wisconsin	239	43.3	1,334.3	32.6	947.3	3,882.6	8,820.3	388.4
West North Central #	**370**	**36.8**	**942.8**	**28.6**	**666.2**	**3,078.0**	**6,418.1**	**534.8**
Minnesota	107	14.0	406.7	11.1	295.7	1,351.3	2,610.1	394.8
Iowa	50	5.2	126.4	4.0	87.4	397.8	896.8	22.1
Missouri	134	12.6	298.6	9.9	212.3	910.5	2,033.6	117.9
North Dakota	-	-	-	-	-	-	-	-
South Dakota	8	0.5	9.0	0.4	6.1	29.8	62.2	(D)
Nebraska	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kansas	54	4.5	102.1	3.2	64.7	388.6	815.4	(D)
South #	**1,717**	**204.7**	**5,794.6**	**158.4**	**4,161.6**	**19,996.9**	**41,247.4**	**2,366.8**
South Atlantic	**874**	**103.3**	**2,926.8**	**79.2**	**2,066.7**	**9,491.3**	**20,027.4**	**1,338.1**
Delaware	15	1.7	42.8	1.3	29.9	205.6	327.4	(D)
Maryland	82	9.3	227.1	7.0	153.3	555.1	1,087.2	100.4
Virginia	104	14.5	419.9	10.9	290.3	1,271.9	2,623.2	114.5
West Virginia	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina	201	21.8	608.8	17.0	438.9	1,780.6	3,710.9	164.9
South Carolina	82	13.1	386.4	10.4	284.4	1,665.6	3,150.9	139.1
Georgia	207	28.8	846.1	21.5	577.7	2,872.4	6,336.0	445.0
Florida	181	14.1	395.7	11.1	292.2	1,140.1	2,791.8	374.2
East South Central	**378**	**51.4**	**1,479.2**	**40.1**	**1,083.5**	**5,654.6**	**11,051.1**	**432.3**
Kentucky	65	6.9	175.0	5.4	123.9	653.5	1,421.1	(D)
Tennessee	160	18.2	458.1	14.2	327.4	1,585.8	3,249.6	116.1
Alabama	94	18.4	617.6	14.3	463.9	2,610.2	4,662.6	209.5
Mississippi	59	7.9	228.5	6.2	168.3	805.1	1,717.8	106.7
West South Central	**465**	**50.0**	**1,388.6**	**39.1**	**1,011.4**	**4,851.0**	**10,168.9**	**596.4**
Arkansas	77	12.6	371.7	10.2	289.4	1,144.4	2,461.9	185.6
Louisiana	50	10.3	342.4	8.0	252.6	1,513.3	2,938.1	207.2
Oklahoma	42	3.6	95.7	2.9	74.1	431.7	909.8	21.2
Texas	296	23.5	578.8	18.0	395.3	1,761.6	3,859.1	182.4
West #	**930**	**65.2**	**1,941.0**	**50.3**	**1,379.5**	**6,081.1**	**13,811.0**	**629.7**
Mountain #	**120**	**5.3**	**122.4**	**4.1**	**53.7**	**345.8**	**819.2**	**34.1**
Montana	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	-	-	-	-	-	-
Colorado	53	2.5	56.9	1.8	36.2	138.2	333.7	16.6
New Mexico	-	-	-	-	-	-	-	-
Arizona	33	1.7	42.4	1.3	0.0	144.3	320.3	14.2
Utah	21	1.1	23.1	1.0	17.5	63.3	165.2	3.3
Nevada	-	-	-	-	-	-	-	-
Pacific #	**810**	**59.9**	**1,818.6**	**46.2**	**1,325.8**	**5,735.3**	**12,991.8**	**595.6**
Washington	109	16.0	552.3	12.5	420.4	1,778.7	3,980.8	217.0
Oregon	65	7.4	266.6	5.8	202.2	1,156.6	2,267.4	124.2
California	624	36.5	999.7	27.9	703.2	2,800.0	6,743.6	254.4
Hawaii	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Alaska	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)
TOTAL REPORTED	**6,256**	**591.8**	**16,369.7**	**450.9**	**10,896.2**	**49,157.4**	**105,879.3**	**5,175.8**
TOTAL U.S.A.		**611.3**	**16,859.8**	**465.7**	**11,776.2**	**50,488.8**	**108,988.7**	**5,752.5**

Source: Department of Commerce, Bureau of the Census: 1987 Census of Manufactures, Geographic Area Series.
(D) - Data withheld to avoid disclosure. # - Total reported. - = No data reported.

SECTION III

INPUTS AND RELATED DATA

The data shown in Table XIX (page 52) highlight the continued rapid gains being made on the recycling front. In particular, U.S. recovery of paper and paperboard rose 6.5% in 1993 to 35.8 million tons, substantially outpacing new supply growth of 3.7%. Domestic mills increased their consumption of recovered paper by 10.3% in 1993 to 28.9 million tons, more than offsetting an 8.7% decline in exports to 5.9 million tons. The 1993 setback in recovered paper exports reflected a confluence of factors including weak economic conditions abroad, increased recovery in Europe, and rapid gains in domestic utilization of recovered paper.

The U.S. paper recovery rate, calculated as paper and paperboard recovery as a percent of new supply (domestic production plus imports less exports), amounted to 39.1% for full-year 1993 and reached 40% by year-end. The utilization rate of recovered paper in the manufacture of paper and paperboard (consumption of recovered paper in U.S. mills divided into production) rose from 31.0% in 1992 to 33.4% in 1993.

Corrugated maintained its position as the largest single category of recovered paper (Table XX, page 53). Recovery of corrugated increased by 9.4% in 1992 and almost 9.0% in 1993, bringing the total to 16.7 million tons, 46.6% of all paper recovered and 62% of containerboard new supply for packaging. Collection of old newspapers, the second largest group, grew 3.8% in 1992 and 7.0% in 1993 to 7.4 million tons, 20.6% of total paper recovered and 58% of newsprint new supply.

Capital spending by Paper and Allied products companies (Table XXVI, page 62, Column 1) peaked in the 1989-90 period at $15.6-16.5 billion. It subsequently slowed to $11.5 billion in 1991 and then hovered in the $10.3-10.5 billion range during the next two years. The Bureau of Economic Analysis expects capital spending by paper and allied products firms to reach $10.8 billion in 1994.

Industry productivity growth -- largely the result of capital expenditures -- continued upward in 1993 (Table XXIV, page 60). Over the past ten years, employee productivity has grew 3.1% per year, close to the 1950-1993 rate of 3.4% per year. The increase in productivity permitted the industry to produce ever-larger tonnage with little change in employment. The 1993 employment total at paper, paperboard and wood pulp mills was 1.7% below 1992's and 5.5% less than that of 1983 (Table XXIII).

This section also includes tables on wood pulp production, fibrous raw materials, energy and total materials consumption at paper and paperboard mills, and employee compensation. The 1993 data on energy consumption at paper and paperboard mills was not available at publication time.

TABLE XVII
MATERIALS CONSUMED BY KIND AT PAPER, PAPERBOARD AND WOOD PULP MILLS
1987

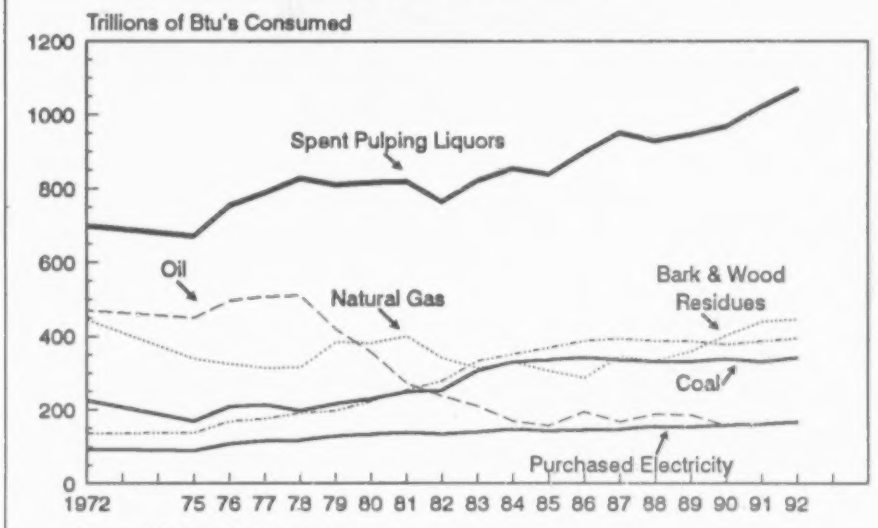
	Industry 2611 Pulp Mills		Industry 2621 Paper Mills		Industry 2631 Paperboard Mills		All Primary Mills	
	000 Tons	$ Mil	000 Tons	$ Mil	000 Tons	$ Mil	000 Tons	$ Mil
MATERIALS, PARTS, CONTAINERS & SUPPLIES								
Pulpwood (Units: 1,000 cords)								
Softwoods								
Bolts and Logs								
Spruce	179.3	10.4	1,620.3	124.2	(D)	(D)	1,799.6	134.6
Hemlock	769.3	43.8	887.9	58.7	(D)	(D)	1,657.2	102.5
Jack Pine	-	-	896.8	49.7	(D)	(D)	896.8	49.7
Southern Pine	3,902.2	247.6	9,601.7	599.6	13,302.6	826.4	26,806.7	1,673.6
Other Softwoods	(D)	(D)	1,084.9	66.2	(D)	(D)	1,084.9	66.2
Chips	4,242.8	243.5	9,934.4	608.1	13,110.3	745.2	27,287.5	1,596.8
Slabs, cores and other mill residues	(D)	(D)	382.0	11.8	254.3	8.0	636.3	19.8
Sum of reported softwoods	9,093.6	545.3	24,408.0	1,518.3	26,667.4	1,579.6	60,169.0	3,643.2
Hardwoods								
Bolts and Logs								
Northern mixed hardwoods	(D)	(D)	1,653.1	85.1	605.2	29.6	2,258.3	114.7
Poplar (aspen and poppie)	(D)	(D)	1,469.7	76.4	(D)	(D)	1,469.7	76.4
Southern mixed hardwoods	2,245.5	114.0	4,949.3	266.2	3,283.9	164.0	10,478.7	544.2
Other hardwoods	418.5	25.8	1,003.8	54.2	585.6	26.6	2,007.9	106.6
Slabs and other mill residues	1,183.9	66.7	3,670.1	200.7	3,978.8	216.1	8,832.8	483.5
Stumpage costs	(X)	-	(X)	11.0	(X)	(D)	(X)	11.0
Sum of reported hardwoods	3,847.9	206.5	12,746.0	693.6	8,453.5	436.3	25,047.4	1,336.4
Sum of reported pulpwood	12,941.5	751.8	37,154.0	2,211.9	35,120.9	2,015.9	85,216.4	4,979.6
Chemicals (Units: 1,000 Tons)								
Sulfur	101.6	11.1	86.4	11.4	91.7	11.6	279.7	34.1
Chlorine	396.6	60.8	864.2	128.8	336.5	49.9	1,597.3	239.5
Sodium Hydroxide (caustic soda NaOH)	626.7	80.1	1,210.9	160.2	913.4	106.3	2,751.0	346.6
Sodium carbonate (Na2CO3)	(D)	(D)	20.6	4.0	57.6	8.2	78.2	12.2
Sodium Sulfate (Na2SO4)	(D)	(D)	153.9	13.5	319.0	28.9	472.9	42.4
Sodium Chlorate (NaClO3)	136.7	42.4	216.9	67.2	81.9	26.4	435.5	136.0
Titanium Dioxide (TiO2)	3.3	4.8	181.8	279.8	28.2	41.1	213.3	325.7
Aluminum Sulfate (17% Al2O3)	13.7	1.8	289.9	39.3	214.7	24.0	518.3	65.1
Rosin sizing	2.6	1.5	78.8	49.9	53.9	33.9	135.3	85.3
Lime	350.2	18.6	760.3	48.2	380.4	22.0	1,490.9	88.8
Sum of reported chemicals	1,631.4	221.1	3,863.7	802.3	2,477.3	352.3	7,972.4	1,375.7
Wood Pulp								
Produced at affiliated mills	(D)	(D)	2,355.2	969.6	(D)	(D)	2,355.2	969.6
Produced and consumed at same location	849.6	(X)	23,353.9	(X)	25,051.8	(X)	49,255.3	(X)
Purchased market wood pulp	(D)	(D)	5,191.8	2,568.5	118.4	50.9	5,310.2	2,619.4
Sum of reported wood pulp	849.6	(X)	30,900.9	3,538.1	25,170.2	50.9	56,920.7	3,589.0
Waste Paper								
Mixed	(D)	(D)	388.8	66.2	1,594.8	128.0	1,983.6	194.2
News	-	-	1,614.2	122.3	1,098.0	67.0	2,712.2	189.3
Corrugated	-	-	453.2	51.9	6,899.1	637.3	7,352.3	689.2
High grade pulp substitutes	-	-	599.5	165.2	709.6	112.1	1,309.1	277.3
High grade deinking	(D)	(D)	1,171.4	135.6	152.0	25.1	1,323.4	160.7
Sum of reported waste paper	(D)	(D)	4,227.1	541.2	10,453.5	969.5	14,680.6	1,510.7
Other Materials								
Linter pulp	-	-	23.5	20.4	-	-	23.5	20.4
Cotton linters (adj.)	183.1	38.6	20.8	20.4	-	-	203.8	59.0
Other fibrous materials	(D)	(D)	142.3	59.8	(S)	0.9	142.3	60.7
Kaolin and ball clay	(D)	(D)	2,380.5	326.1	268.6	33.7	2,649.1	359.8
Starch (adj.)	(D)	(D)	850.3	214.2	212.9	57.6	1,063.2	271.8
Synthetic resins - styrene butadiene (adj.)	-	-	123.9	126.5	15.5	19.4	139.4	145.9
Synthetic resins - polyvinyl acetate (adj.)	-	-	23.6	18.7	19.6	14.7	43.2	33.4
Sum of reported other materials	183.1	38.6	3,541.3	765.7	516.6	126.3	4,240.9	930.6
Paperboard boxes, etc.	(X)	(D)	(X)	157.8	(X)	(D)	(X)	157.8
All other	(X)	413.1	(X)	3,293.0	(X)	1,493.3	(X)	5,199.4
Materials n.s.k	(X)	119.7	(X)	776.9	(X)	179.1	(X)	1,075.7
Sum of reported miscellaneous materials	(X)	532.8	(X)	4,227.7	(X)	1,672.4	(X)	6,432.9
Sum of individual reported materials	(X)	1,544.3	(X)	12,086.9	(X)	5,187.3	(X)	18,818.5
Materials not reported separately	(X)	122.6	(X)	17.6	(X)	143.4	(X)	283.6
Total materials reported	(X)	1,666.9	(X)	12,104.5	(X)	5,330.7	(X)	19,102.1
ENERGY	(X)	**264.8**	(X)	**2,430.7**	(X)	**1,341.6**	(X)	**4,037.1**
Reported materials and energy	(X)	1,931.7	(X)	14,535.2	(X)	6,672.3	(X)	23,139.2
Other materials	(X)	87.7	(X)	320.8	(X)	167.4	(X)	575.9
REPORTED COST OF MATERIALS	(X)	**2,019.4**	(X)	**14,856.0**	(X)	**6,839.7**	(X)	**23,715.1**
EMPLOYEE COSTS								
Payroll	(X)	535.1	(X)	4,597.0	(X)	1,858.8	(X)	6,990.9
Other compensation	(X)	124.6	(X)	1,043.6	(X)	371.5	(X)	1,539.7
Total compensation	(X)	659.7	(X)	5,640.6	(X)	2,230.3	(X)	8,530.6
TOTAL DIRECT COSTS (Including Salaries)	(X)	**2,679.1**	(X)	**20,496.6**	(X)	**9,070.0**	(X)	**32,245.7**
CONTRIBUTION TO OVERHEAD	(X)	**1,621.7**	(X)	**8,383.7**	(X)	**4,684.0**	(X)	**14,689.4**
VALUE ADDED	(X)	**2,281.4**	(X)	**14,024.3**	(X)	**6,914.3**	(X)	**23,220.0**
Sum of value added & cost of raw materials	(X)	4,300.8	(X)	28,880.3	(X)	13,754.0	(X)	46,935.1
Imputed inventory change	(X)	(12.9)	(X)	(37.7)	(X)	24.3	(X)	(26.3)
VALUE OF SHIPMENTS	(X)	**4,313.7**	(X)	**28,918.0**	(X)	**13,729.7**	(X)	**46,961.4**

Source: 1987 Census of Manufactures. 1988 Survey of Manufactures - Bureau of Census.
(D) - Data withheld by Census to avoid disclosing data for individual comapanies; data are included in higher level totals. (X) Not applicable.
(S) - Withheld by Census because estimate did not meet publication standards. - : Zero. n.s.k. - not specifically known.

Chart 13

U.S. PULP, PAPER AND PAPERBOARD INDUSTRY

Changing Fuel Mix 1972 - 1992



Source: AF&PA Energy Monitoring System

Chart 14

PULP, PAPER AND PAPERBOARD INDUSTRY

All Employees-Output Per Hour

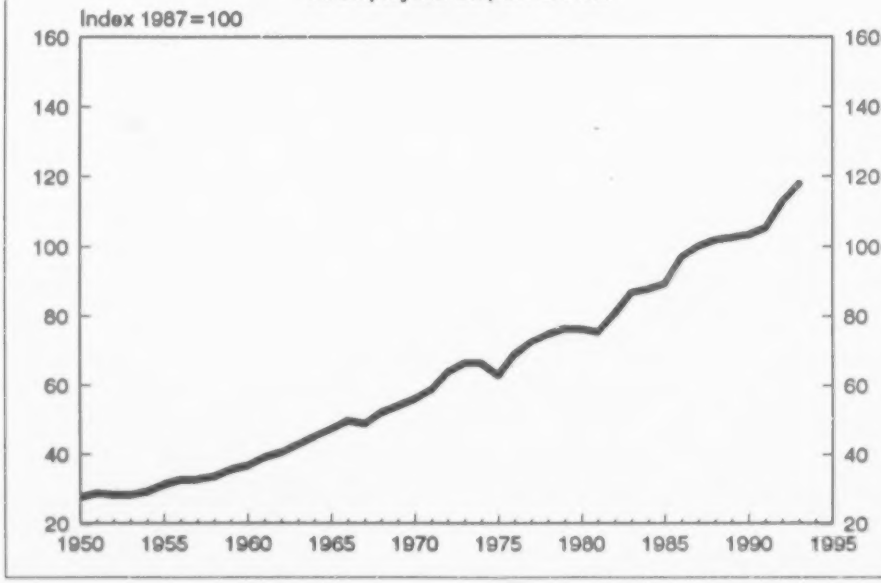


TABLE XVIII

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1988 - 1992

		1972 *			1988 *			1989 *		
Source	Units	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+
Purch. Electricity	MM KWH	27,559.5	93,698.4	4.4	45,430.7	154,523.2	6.5	45,272.6	153,997.9	6.4
Purchased Steam	MM lbs.	19,548.3	22,613.0	1.1	18,874.6	20,822.2	0.9	16,953.3	18,431.9	0.8
Coal	M Tons	9,033.6	224,737.1	10.7	13,185.1	329,833.0	13.9	13,173.8	331,102.5	13.7
Residual Fuel Oil	M 42 gal BBLs	71,121.2	447,381.5	21.2	28,367.3	178,494.7	7.5	28,448.3	178,699.3	7.4
Distillate Fuel Oil	M 42 gal BBLs	3,698.9	22,020.9	1.0	1,499.2	8,953.2	0.4	1,434.9	8,568.7	0.4
Liquid Propane Gas	M gal	28,566.8	2,628.9	0.1	28,514.3	2,618.9	0.1	29,280.9	2,689.3	0.1
Natural Gas	MMCF	435,459.9	443,916.3	21.1	326,328.3	332,356.1	14.0	325,905.6	359,414.7	14.9
Other Purch. Energy			1,634.0	0.1		2,219.9	0.1		3,222.7	0.1
Energy Sold			(13,125.0)			(39,356.5)			(32,695.0)	
Total Purch. Fossil Fuel and Energy			1,245,505.1	59.7		990,464.7	43.4		1,023,432.0	43.8
Hogged Fuel (50% Moist. Content)	M Tons	5,191.2	42,103.2	2.0	31,367.9	262,541.1	11.1	30,069.6	250,175.9	10.4
Bark (50% Moisture Content)	M Tons	10,348.2	94,428.9	4.5	14,345.2	123,693.4	5.2	16,102.9	136,385.3	5.7
Spent Liquor (Solids)	M Tons	55,175.5	698,393.4	33.3	75,361.8	928,310.1	39.3	76,709.6	944,629.3	39.2
Self-Generated Hydroelec. Power	MM KWH	2,696.4	9,171.3	0.4	3,309.8	11,256.5	0.5	3,772.9	12,833.5	0.5
Other Self-Generated Energy			2,977.4	0.1		11,451.5	0.5		11,308.4	0.5
Total Self-Generated & Residue Fuels			847,074.2	40.3		1,337,254.6	56.6		1,355,332.4	56.2
Total Energy			2,092,579.3	100.0		2,327,719.3	100.0		2,378,764.4	100.0
Total Production	M Tons		61,487.5			87,312.3			87,598.5	

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Forest & Paper Association.

* Based on a sample of 90.1% total dried pulp, paper and paperboard production for 1972, 94.5% for 1988, and 93.0% for 1989.

+ Determined by using "Total Energy" less "Energy Sold" as a denominator.

TABLE XVIII (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1988 - 1992

		1990 *			1991 *			1992 *		
Source	Units	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+
Purch. Electricity	MM KWH	46,673.0	158,772.5	6.5	47,181.6	160,537.8	6.3	49,467.8	168,275.3	6.3
Purchased Steam	MM lbs.	17,490.1	19,085.4	0.8	20,871.7	22,776.3	0.9	23,951.1	26,073.0	1.0
Coal	M Tons	13,969.4	338,051.6	13.7	13,048.5	330,939.1	12.9	13,636.9	340,632.9	12.8
Residual Fuel Oil	M 42 gal BBLs	23,963.8	150,854.7	6.1	24,590.8	154,631.1	6.0	25,596.4	160,722.6	6.0
Distillate Fuel Oil	M 42 gal BBLs	1,427.1	6,898.2	0.3	1,123.8	5,354.7	0.2	1,691.6	6,281.0	0.2
Liquid Propane Gas	M gal	34,575.9	3,350.1	0.1	80,540.7	7,407.4	0.3	85,379.9	7,854.0	0.3
Natural Gas	MMCF	393,419.6	401,682.9	16.3	429,735.3	439,456.0	17.2	435,383.9	445,654.1	16.8
Other Purch. Energy			5,413.9	0.2		5,852.1	0.2		9488.1	0.4
Energy Sold			(33,581.1)			(36,445.8)			(39,146.6)	
Total Purch. Fossil Fuel and Energy			1,050,528.2	44.0		1,090,508.7	44.0		1,125,834.4	43.8
Hogged Fuel (50% Moist. Content)	M Tons	29,702.1	247,578.3	10.1	28,950.3	241,043.9	9.4	29,571.6	243,111.7	9.1
Bark (50% Moisture Content)	M Tons	15,065.7	130,694.4	5.3	16,685.5	144,881.9	5.7	17,330.5	151,553.2	5.7
Spent Liquor (Solids)	M Tons	77,977.3	967,036.5	39.3	83,169.7	1,020,706.9	39.9	86,476.1	1,067,839.7	40.2
Self-Generated Hydroelec. Power	MM KWH	3,938.3	17,240.0	0.7	4,092.1	13,917.1	0.5	4,450.4	15,135.8	0.6
Other Self-Generated Energy			12,984.0	0.5		13,494.9	0.5		16,308.6	0.6
Total Self-Generated & Residue Fuels			1,375,533.2	56.0		1,434,044.7	56.0		1,493,949.0	56.2
Total Energy			2,426,061.4	100.0		2,524,553.4	100.0		2,619,783.4	100.0
Total Production	M Tons		N.A.			N.A.			N.A.	

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Forest & Paper Association.

* Based on a sample of 93.0% total dried pulp, paper and paperboard production for 1990, 90.5% for 1991, and 90.1% for 1992.

+ Determined by using "Total Energy" less "Energy Sold" as a denominator. N.A. - Not Available.

TABLE XIX

UNITED STATES

RECOVERED PAPER UTILIZATION AND RECOVERY

1970 - 1993

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recovered Paper Consumption at Paper & Board Mills	Recovered Paper Utilization Rate	Recovered Paper for Molded Pulp, Insulation and Other Uses	Exports	Imports	Total Paper Recovered	Recovery Rate
1970	51,670.1	55,967.9	11,803.0	22.8%	418.0	408.0	(67.0)	12,562.0	22.4%
1971	53,162.0	57,449.9	12,106.0	22.8%	442.0	419.0	(68.0)	12,899.0	22.5%
1972	57,433.7	62,040.7	12,925.0	22.5%	447.0	415.0	(88.0)	13,699.0	22.1%
1973	59,900.0	65,003.9	14,094.0	23.5%	499.0	683.0	(87.0)	15,189.0	23.4%
1974	59,040.2	63,308.2	13,982.0	23.7%	489.0	1,307.0	(89.0)	15,689.0	24.8%
1975	50,976.1	54,113.0	11,748.0	23.0%	535.0	861.0	(72.0)	13,072.0	24.2%
1976	58,328.7	62,013.9	13,622.0	23.4%	630.0	1,273.0	(106.0)	15,419.0	24.9%
1977	60,040.1	64,242.8	14,058.0	23.4%	870.0	1,512.0	(92.0)	16,348.0	25.4%
1978	62,046.7	67,787.1	14,760.0	23.8%	502.0	1,612.9 RS1	(70.0)	16,804.9	24.8%
1979	64,344.9	69,795.9	15,361.0	23.9%	509.0	2,126.8	(78.0)	17,918.8	25.7%
1980	63,600.1	67,166.3	14,922.0	23.5%	473.0	2,637.3	(87.0)	17,945.3	26.7%
1981	64,258.3	67,956.4	15,037.0	23.4%	480.0	2,282.0	(79.0)	17,720.0	26.1%
1982	60,951.7	64,729.7	14,433.0	23.7%	487.0	2,232.5	(74.0)	17,078.5	26.4%
1983	66,747.5	71,165.0	15,648.0	23.4%	475.0	2,704.7	(100.0)	18,727.7	26.3%
1984	70,248.5	76,936.6	16,724.0	23.8%	460.0	3,456.4	(110.0)	20,530.4	26.7%
1985	68,682.7	76,132.9	16,371.0	23.8%	529.1 RS2	3,555.9	(87.0)	20,369.0	26.8%
1986	72,505.1	79,754.8	17,935.0	24.7%	593.0	4,092.7	(99.0)	22,521.7	28.2%
1987	75,951.4	83,484.2	18,694.0	24.6%	657.2	4,809.3	(128.0)	24,032.5	28.8%
1988	78,086.7	85,505.7	19,664.0	25.2%	702.8	5,952.8	(160.0)	26,179.4	30.6%
1989	78,355.7	85,155.9	20,220.0	25.8%	722.0	6,307.1	(173.0)	27,076.1	31.8%
1990	80,353.7	86,705.3	21,736.0	27.1%	977.0 RS4	6,504.9 RS3	(123.0)	29,094.9	33.6%
1991	81,099.8	84,935.9	23,662.0	29.2%	1,076.0	6,597.7	(122.0)	31,213.7	36.7%
1992 R	84,557.9	88,129.8	26,181.0	31.0%	1,100.0	6,447.7	(150.0)	33,578.7	38.1%
1993 P	86,557.3	91,402.3	28,873.0	33.4%	1,150.0	5,888.4	(137.8)	35,773.0	39.1%

NOTES:

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board.
New Supply equals production plus imports less exports, excluding hard pressed board.
Imports and exports include paper and paperboard converted products.
Utilization Rate is the ratio of recovered paper consumption to total production of paper and board.
Recovery Rate is the ratio of recovered paper collected to new supply of paper and paperboard.
Total Paper Recovered is the sum of recovered paper consumption at paper and board mills, other uses and exports less imports.
RS1 - Recovered paper exports, 1978 - 1989, adjusted using data from Canadian Pulp and Paper Association.
RS2 - Data on other uses for recovered paper revised to reflect additional information on such uses as recovered paper for animal bedding and for insulation.
RS3 - Recovered paper exports reported by the U.S. Bureau of the Census.
RS4 - Data on other uses revised to reflect 1991 API survey.
R - Revised. P - Preliminary.

TABLE XX
UNITED STATES
RECYCLABLE PAPER RECOVERY
1985 - 1993
(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp Insulation and Other	Exports	Sub Total	Imports	Total Recovered
Old Corrugated Containers						
1985	7,900	-	1,467	9,367	(5)	9,362
1986	8,634	-	1,738	10,371	(7)	10,365
1987	9,177	-	2,134	11,311	(13)	11,298
1988	9,909	-	2,482	12,391	(12)	12,379
1989	9,994	-	2,919	12,912	(28)	12,885
1990	10,687	-	2,731	13,418	(11)	13,407
1991	11,248	-	2,749	13,997	(11)	13,986
1992	12,532 R	-	2,794	15,326	(31)	15,294
1993	14,196 P	-	2,485	16,681	(15)	16,666
Old Newspapers						
1985	2,696	529	668	3,893	(29)	3,865
1986	2,925	593	801	4,319	(31)	4,288
1987	2,936	657	930	4,523	(30)	4,493
1988	3,013	703	1,069	4,785	(30)	4,755
1989	3,416	722	1,281	5,419	(29)	5,391
1990	3,812	977	1,257	6,046	(23)	6,023
1991	4,295	1,076	1,305	6,676	(20)	6,656
1992	4,522 R	1,100	1,306	6,929	(21)	6,908
1993	4,972 P	1,150	1,289	7,411	(20)	7,391
Mixed						
1985	1,902	-	854	2,755	(44)	2,711
1986	2,045	-	681	2,726	(43)	2,683
1987	2,116	-	725	2,841	(65)	2,776
1988	2,182	-	823	3,005	(96)	2,908
1989	2,356	-	854	3,210	(70)	3,139
1990	2,505	-	1,146	3,651	(60)	3,591
1991	2,890	-	1,005	3,895	(51)	3,844
1992	3,463 R	-	883	4,346	(52)	4,294
1993	3,756 P	-	939	4,695	(73)	4,622
Pulp Substitutes						
1985	2,494	-	224	2,718	(3)	2,715
1986	2,762	-	390	3,152	(3)	3,149
1987	2,903	-	464	3,367	(2)	3,365
1988	2,890	-	696	3,586	(3)	3,583
1989	2,642	-	344	2,987	(13)	2,974
1990	2,732	-	394	3,126	(6)	3,120
1991	2,990	-	575	3,565	(17)	3,548
1992	2,996 R	-	614	3,610	(13)	3,597
1993	3,133 P	-	536	3,669	(21)	3,648
High Grade Deinking						
1985	1,380	-	342	1,722	(7)	1,716
1986	1,570	-	483	2,053	(16)	2,037
1987	1,564	-	566	2,129	(18)	2,111
1988	1,691	-	883	2,574	(19)	2,554
1989	1,812	-	909	2,721	(33)	2,688
1990	2,000	-	977	2,977	(22)	2,955
1991	2,239	-	964	3,203	(23)	3,180
1992	2,668 R	-	851	3,519	(32)	3,487
1993	2,816 P	-	639	3,455	(9)	3,446
Total All Grades						
1985	16,371	529	3,556	20,456	(88)	20,368
1986	17,935	593	4,092	22,621	(99)	22,522
1987	18,695	657	4,819	24,171	(128)	24,043
1988	19,685	703	5,953	26,340	(161)	26,179
1989	20,220	722	6,307	27,249	(173)	27,077
1990	21,735	977	6,505	29,217	(123)	29,095
1991	23,662	1,076	6,598	31,336	(122)	31,214
1992	26,181 R	1,100	6,448	33,729	(149)	33,580
1993	28,873 P	1,150	5,888	35,911	(138)	35,773

R - Revised. P - Preliminary.
NOTE: Beginning in 1989, export and import data, as reported by the Bureau of the Census, based on the Harmonized Code System.

TABLE XXIA

UNITED STATES PRODUCTION OF WOOD PULP

1983 - 1993

(Thousands of Tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
TOTAL AF&PA PAPER & BOARD GRADES 1/	51,192	54,264	52,973	55,745	58,239	59,793	60,573	61,756	62,267	63,960	62,907
Total Sulfite	1,616	1,618	1,560	1,439	1,440	1,560	1,563	1,561	1,510	1,427	1,428
Bleached Sulfite	1,306	1,359	1,364	1,275	1,269	1,365	1,373	1,393	1,510	1,427	1,428
Unbl. Sulfite	310	259	196	164	171	195	190	167	*	*	*
Total Sulfate	40,697	43,071	42,136	44,639	46,853	47,933	48,618	49,632	50,258	51,931	51,310
Bl. & Semi-Bl.	21,107	22,350	22,626	24,158	25,411	26,302	26,949	27,559	28,382	29,703	29,829
Unbl. Sulfate	19,590	20,721	19,510	20,481	21,442	21,631	21,669	22,072	21,876	22,228	21,481
Total Groundwood	5,067	5,506	5,251	5,476	5,700	5,943	6,029	6,345	6,404	6,501	6,157
Stone and Refiner	3,225	3,361	3,118	3,010	2,960	3,089	3,058	3,131	3,025	2,917	2,777
Thermo-mechanical	1,842	2,145	2,133	2,466	2,740	2,854	2,971	3,215	3,379	3,584	3,381
Semichemical	3,812	4,069	4,026	4,191	4,246	4,357	4,363	4,219	4,094	4,101	4,012
Total Other	1,050	1,050	810	800	690	600	600	600	600	600	600
Defib. or Exploded 2/	620	620	550	540	440	400	400	400	400	400	400
Scr., Damaged E	30	30	30	30	25	25	25	25	25	25	25
Groundwood E	400	400	230	230	225	175	175	175	175	175	175
Sp. Alpha & Dissolving Grades	1,261	1,206	1,174	1,257	1,311	1,367	1,425	1,293	1,370	1,383	N.A.

SOURCE: Pulp, Materials and Technology Group - AF&PA
NOTES: 1/ Excludes Special Alpha & Dissolving Paper Grades & Total Other.
2/ Estimated to exclude wood pulp for hardboard.
E - Estimated. * - Combined with bleached sulfite.

TABLE XXIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1983 - 1993

(Thousands of Tons)

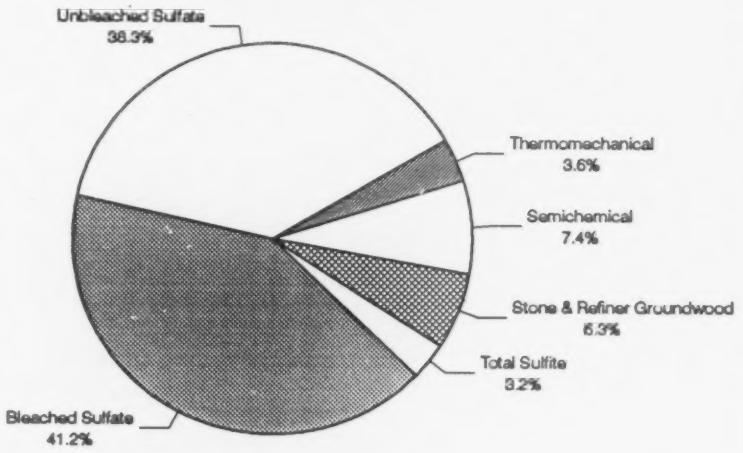
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
MARKET WOOD PULP, TOTAL (excluding Sp. Alpha & Dissolving grades)	5,267	5,695	5,629	6,321	6,804	7,201	7,240	7,506	7,660	8,670	8,377
Chemical Total	5,255	5,680	5,614	6,316	6,804	7,201	7,240	7,506	7,660	8,670	8,377
Bleached Sulfite	230	262	223	224	245	266	237	251	222	249	207
Unbleached Sulfite	-	-	-	-	-	-	-	-	-	-	-
Bl. & Semi-Bl. Sulfate	4,883	5,264	5,242	5,939	6,377	6,658	6,842	7,046	7,232	8,246	7,978
Unbleached Sulfate	142	154	149	153	182	277	161	209	206	175	192
Paper Grades - Other	12	15	15	5	-	-	-	-	-	-	-
Sp. Alpha & Dissolving Paper Grade	1,260	1,204	1,172	1,252	1,308	1,365	1,423	1,292	1,368	1,384	N.A.
MARKET WOOD PULP, TOTAL	6,527	6,899	6,801	7,573	8,112	8,566	8,663	8,798	9,028	10,054	N.A.

SOURCE: *Pulp, Materials and Technology Group - AF&PA.* N.A. - Not Available. - Represents zero.

Chart 15

WOOD PULP PRODUCTION - 1983

Production = 51,192,000 Tons

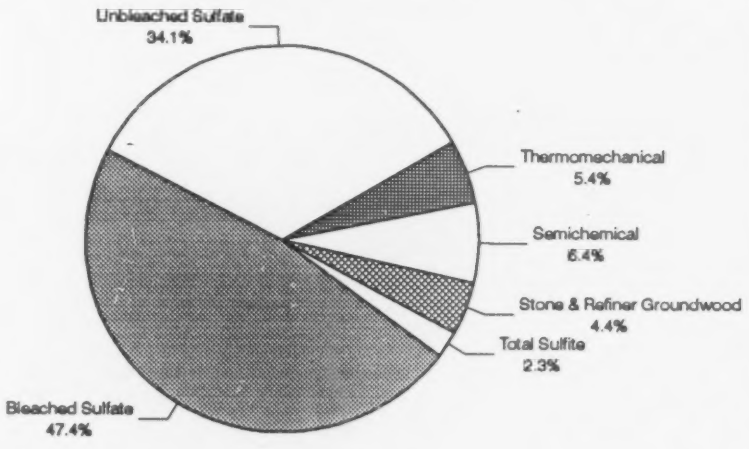


Excludes Special Alpha & Dissolving and Total Other

Chart 16

WOOD PULP PRODUCTION - 1993

Production = 62,907,000 Tons



Excludes Special Alpha & Dissolving and Total Other

TABLE XXII

CONSUMPTION OF FIBROUS RAW MATERIALS

1982 - 1993

(000 Short Tons)

Apparent Wood Pulp Consumption at Paper/Paperboard Mills *	1983	1984	1985	1986	1987RS	1988	1989	1990	1991	1992 R	1993 P
Bleached Sulfite	1,592	1,660	1,615	1,659	1,450	1,496	1,559	1,502	1,658	1,516	1,604
Unbleached Sulfite	435	413	341	309	327	248	230	197	**	**	**
Bleached Sulfate	20,376	21,755	22,332	23,994	25,604	26,362	26,544	26,884	27,577	28,011	29,262
Unbleached Sulfate	19,803	21,092	19,599	21,108	21,385	21,497	21,627	21,989	21,827	22,156	21,451
Groundwood	3,944	3,877	3,516	3,347	3,054	3,326	3,239	3,304	3,164	3,036	2,938
Thermomechanical	1,670	2,160	2,252	2,527	2,740	2,854	2,971	3,214	3,379	3,583	3,405
Semichemical	3,565	4,003	3,993	4,237	4,350	4,489	4,533	4,406	4,275	4,293	4,285
Total (ex. special alpha and dissolving)*	51,385	54,960	53,648	57,181	58,910	60,272	60,703	61,496	61,880	62,595	62,945
Special Alpha and Dissolving Grades	37	34	34	41	44	42	38	40	53	29	N.A.
Defibrated or Expl. E) Screenings, Damaged)	650	650	589	570	565	520	540	540	540	540	540
OTHER FIBROUS MATERIALS											
Recovered Paper	15,648	16,724	16,371	17,935	18,695	19,685	20,220	21,735	23,662	26,181	28,873
All Other, incl. Straw, Rags, etc.	431	365	295	313	320	377	318	268	187	177	187 *
Total Other	16,079	17,089	16,666	18,248	19,015	20,062	20,538	22,003	23,849	26,358	29,060
PULPWOOD, (000 cords)											
Softwood	61,947	62,558	60,610	63,127	65,177	65,997	68,058	68,442	67,057	68,017	66,599
Hardwood	23,495	25,088	25,134	28,307	28,769	29,500	30,356	30,667	31,185	36,581	38,676
Receipts of Residues	32,755	32,072	30,496	32,754	32,899	33,186	34,540	35,727	34,079	39,784	43,134
PULPWOOD, TOTAL	85,442	87,646	85,744	91,434	93,946	95,497	98,414	99,109	98,242	104,598	105,275

SOURCES: Consumption of wood pulp in paper and board mills, 1982-1986 - Bureau of Census; 1987 - 1993 AF&PA.
Consumption of other fibrous materials - American Forest & Paper Association
Consumption of pulpwood - American Pulpwood Association.

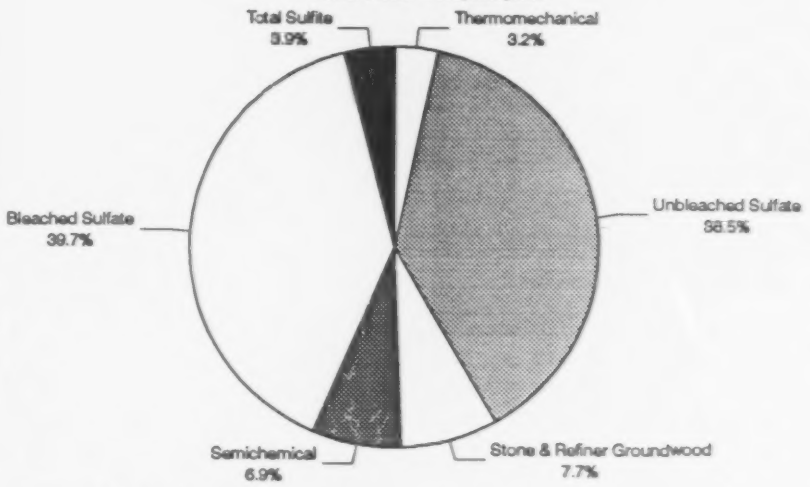
NOTES: E - Estimated by American Forest & Paper Association ; RS - Revised Series ; P - Preliminary
* Production for domestic use plus imports as reported by the Census Bureau.
** Combined with bleached sulfite. N.A. - Not Available.

Chart 17

CONSUMPTION OF WOOD PULP

AT PAPER AND PAPERBOARD MILLS - 1983

Total Tons = 51,385,000 *



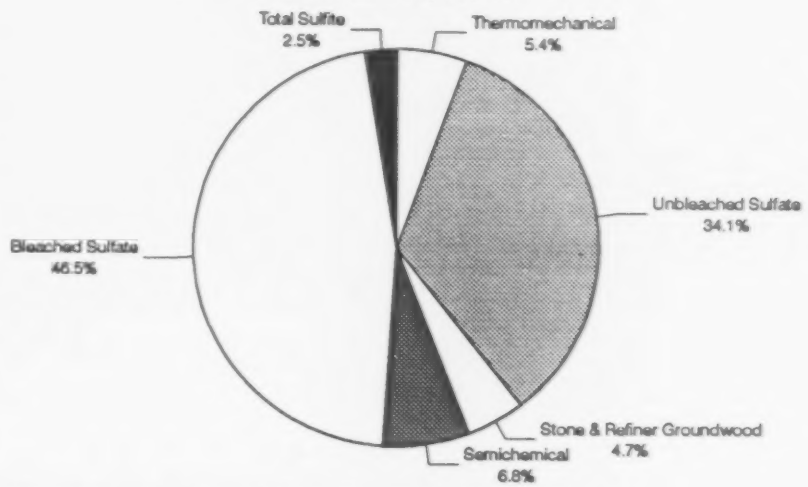
*Does not include wood pulp consumed at construction paper and insulation board mills.

Chart 18

CONSUMPTION OF WOOD PULP

AT PAPER AND PAPERBOARD MILLS - 1993

Total Tons = 62,945,000 *



*Does not include wood pulp consumed at construction paper and insulation board mills.

TABLE XXIII

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1981 - 1993 *

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees Total (Thousands)	Production Workers
PAPER AND ALLIED PRODUCTS - SIC 26					
1981	8.60	365.50	42.5	680.5	515.0
1982	9.32	389.58	41.8	655.4	490.7
1983	9.93	423.02	42.6	653.9	491.2
1984	10.41	448.67	43.1	673.8	508.1
1985	10.83	466.77	43.1	670.9	508.4
1986	11.18	482.98	43.2	667.1	507.2
1987	11.43	496.06	43.4	674.0	512.3
1988	11.69	506.18	43.3	688.8	516.3
1989	11.96	517.87	43.3	695.7	520.5
1990	12.31	533.02	43.3	696.7	522.3
1991	12.72	550.78	43.3	687.9	517.4
1992 R	13.07	569.85	43.6	690.3	519.8
1993	13.42	585.11	43.6	689.4	519.9
PAPER AND PULP - SIC 261 & 262 - E					
1981	10.15	455.93	44.9	195.7 R	147.4
1982	10.98	486.24	44.3	191.4 R	143.4
1983	11.82	526.30	44.5	190.8 R	143.2
1984	12.56	564.69	45.0	193.0 R	144.9
1985	13.27	597.00	45.0	190.5 R	144.1
1986	13.75	622.00	45.2	188.3 R	143.7
1987	14.11	644.54	45.7	186.6 R	141.6
1988	14.39	649.69	45.2	191.2 R	145.1
1989	14.73	661.55	44.9	193.2 R	146.7
1990	15.19	684.87	45.1	194.2 R	147.1
1991	15.66	704.70	45.0	193.5	147.3
1992 R	16.20	734.69	45.4	187.8	142.8
1993	16.71	757.60	45.3	184.2	140.5
PAPER MILLS - SIC 262					
1981	9.96	451.19	45.3	178.9	134.2
1982	10.80	482.76	44.7	176.0	131.2
1983	11.64	520.31	44.7	176.4	131.6
1984	12.39	558.79	45.1	179.2	133.8
1985	13.14	593.93	45.2	176.9	133.2
1986	13.63	617.44	45.3	173.6	132.1
1987	14.01	641.66	45.8	171.7	130.0
1988	14.28	646.88	45.3	176.1	133.1
1989	14.65	662.18	45.2	177.7	134.5
1990	15.10	682.52	45.2	180.1	136.1
1991	15.56	701.76	45.1	179.3	136.3
1992 R	16.07	731.19	45.5	174.0	132.1
1993	16.58	752.73	45.4	170.9	130.2

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington D.C.

NOTE: Data on hours and earnings refer to production workers.

* 1981 - 1992 data reflects BLS benchmark revision; may not be fully consistent with earlier data. E - Estimated by American Forest & Paper Association. R - Revised.

TABLE XXIII (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1981 - 1993 *

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees Total (Thousands)	Production Workers
PAPERBOARD - SIC 263					
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.4	46.7
1983	12.11	525.57	43.4	58.2	44.5
1984	12.99	575.46	44.3	57.2	43.8
1985	13.60	599.76	44.1	55.3	42.4
1986	13.98	619.31	44.3	53.6	40.8
1987	14.30	632.06	44.2	53.6	40.4
1988	14.49	643.36	44.4	52.6	40.0
1989	14.76	661.25	44.8	52.2	40.0
1990	15.26	695.86	45.6	52.1	40.0
1991	15.71	711.66	45.3	51.1	39.6
1992 R	16.24	737.30	45.4	51.5	39.7
1993	16.77	758.00	45.2	51.1	39.2
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 267					
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	213.5	154.7
1983	8.71	361.47	41.5	214.4	155.8
1984	9.09	379.05	41.7	226.4	165.3
1985	9.33	390.93	41.9	228.2	167.8
1986	9.62	403.08	41.9	228.6	168.5
1987	9.90	416.79	42.1	232.3	172.5
1988	10.13	424.45	41.9	238.5	170.9
1989	10.48	440.16	42.0	240.8	172.0
1990	10.79	454.26	42.1	241.3	173.8
1991	11.15	467.19	41.9	235.9	169.8
1992 R	11.52	486.14	42.2	239.6	172.1
1993	11.78	495.94	42.1	242.1	174.5
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1981	7.53	312.50	41.5	201.2	153.5
1982	8.16	329.66	40.4	190.0	143.6
1983	8.60	358.62	41.7	190.6	145.1
1984	8.92	377.32	42.3	197.1	151.7
1985	9.24	389.00	42.1	196.8	152.2
1986	9.58	407.15	42.5	196.5	152.5
1987	9.77	416.20	42.6	201.5	156.9
1988	10.01	428.43	42.8	206.4	160.3
1989	10.17	435.28	42.8	209.4	161.8
1990	10.39	442.61	42.6	209.2	161.5
1991	10.73	459.24	42.8	207.3	160.8
1992 R	11.01	474.53	43.1	211.3	165.1
1993	11.34	491.02	43.3	211.9	165.7

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington D.C.

NOTE: Data on hours and earnings refer to production workers.

* 1981 - 1992 data reflects BLS benchmark revision; may not be fully consistent with earlier data. R - Revised

TABLE XXIV
INDEX OF OUTPUT PER EMPLOYEE-HOUR (1987 = 100)
PULP, PAPER AND BOARD MILLS
1950 - 1993

YEAR	Output per Employee Hour: Production Workers	Output per Employee Hour: All Employees	Output	Employee Hours: Production Workers	Employee Hours: All Employees
1950	24.8	27.6	28.9	116.3	104.8
1951	26.1	28.8	31.5	120.6	109.5
1952	25.8	28.2	30.0	116.2	106.4
1953	25.8	28.2	32.0	124.2	113.5
1954	27.0	29.3	32.7	121.1	111.6
1955	28.7	31.3	36.6	127.6	116.8
1956	30.2	32.6	38.8	128.5	118.9
1957	30.5	32.7	37.8	124.1	115.7
1958	31.4	33.5	38.0	121.1	113.4
1959	33.3	35.5	42.3	127.0	119.2
1960	34.8	36.7	43.3	124.6	117.9
1961	37.1	39.1	44.6	120.2	114.2
1962	38.4	40.5	46.9	122.1	115.7
1963	40.8	42.9	49.4	121.2	115.2
1964	42.8	45.2	52.6	122.8	116.5
1965	45.2	47.4	55.7	123.2	117.4
1966	47.5	49.7	60.0	126.4	120.7
1967	46.9	48.9	59.8	127.5	122.2
1968	49.6	52.0	64.3	129.7	123.6
1969	51.4	54.1	67.7	131.6	125.1
1970	53.9	56.1	67.1	124.6	119.7
1971	56.9	58.7	67.8	119.1	115.6
1972	61.6	63.7	73.2	118.8	114.9
1973	64.1	66.3	76.6	119.5	115.5
1974	64.3	66.3	76.3	118.6	115.0
1975	62.3	62.8	64.7	103.9	103.1
1976	67.5	68.9	75.4	111.7	109.5
1977	71.1	72.5	78.9	111.0	108.9
1978	73.6	74.7	80.7	109.6	108.0
1979	75.5	76.3	83.6	110.8	109.5
1980	75.5	76.1	83.0	109.9	109.0
1981	74.8	75.4	80.7	107.9	107.0
1982	80.7	80.7	81.3	100.7	100.8
1983	86.3	86.6	87.5	101.4	101.0
1984	87.4	87.6	90.7	103.8	103.5
1985	89.8	89.1	91.1	101.5	102.2
1986	96.7	96.9	96.7	100.0	99.8
1987	100.0	100.0	100.0	100.0	100.0
1988	101.2	101.8	103.4	102.2	101.6
1989	101.8	102.5	103.6	101.8	101.1
1990	103.8	103.2	105.8	101.9	102.5
1991	105.5	105.2	106.7	101.1	101.4
1992	113.2	112.9	112.3	99.2	99.5
1993 P	117.5	117.2	114.9	97.8	98.1

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics: 1950-1992; American Forest & Paper Association calculations from BLS data: 1993.

NOTES: The BLS revised the index base year from 1982 to 1987; all series revised back to 1950. P - Preliminary.

TABLE XXV
COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY FROM THE NATIONAL INCOME AND PRODUCT ACCOUNTS
1950 - 1993

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	Total	Wages and Salaries	Supplements to Wages & Salaries *				
	(Millions of Dollars)						
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,331	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,010	1,889	679	692	14,996
1978	13,498	11,219	2,279	2,126	690	700	16,259
1979	14,965	12,379	2,586	2,128	697	707	17,760
1980	16,199	13,384	2,815	2,564	681	691	19,653
1981	17,658	14,541	3,117	2,842	679	687	21,409
1982	18,250	14,994	3,256	3,287	649	663	23,103
1983	19,459	15,994	3,465	3,403	650	662	24,606
1984	21,180	17,476	3,704	4,304	666	680	26,240
1985	21,986	18,280	3,706	5,157	667	679	27,406
1986	23,043	19,127	3,916	5,158	664	676	28,806
1987	23,929	19,854	4,075	5,723	668	677	29,722
1988	25,268	21,014	4,254	6,038	678	689	30,994
1989	26,415	21,887	4,528	6,394	688	698	31,813
1990 R	27,616	22,856	4,760	N.A.	689	699	33,173
1991 R	28,300	23,246	5,054	N.A.	681	689	34,135
1992 R	29,760	24,348	5,412	N.A.	679	690	35,859
1993 P	31,082	25,307	5,775	N.A.	684	693	36,999

SOURCE: Bureau of Economic Analysis, Department of Commerce, National Income and Product Accounts, Table 6
* - Total less Wages & Salaries P - Preliminary R - Revised N.A. - Not Available

TABLE XXVI
PAPER AND ALLIED PRODUCTS
EXPENDITURES ON NEW PLANT AND EQUIPMENT
1950 - 1993
(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	Total SIC 26	PRIMARY MILLS: Total Primary 261-3,6	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	CONVERTING PLANTS: Total Converting 264,6	Converted Paper Products 264	Paperboard Containers & Boxes 265
1950	327	299	212	(	212 a	)	a	87	51	36
1951	420	389	263	(	263 a	)	a	126	61	65
1952	364	371	274	(	274 a	)	a	97	61	36
1953	409	397	276	(	276 a	)	a	121	74	47
1954	455	533	371	(	371 a	)	a	162	(162	)
1955	510	556	389	(	389 a	)	a	167	(167	)
1956	800	750	548	(	548 a	)	a	202	106	96
1957	810	767	585	(	585 a	)	a	182	(182	)
1958	570	634	417	43	259	102	13	218	82	136
1959	650	686	453	92	215	117	29 b	233	79 i	154
1960	770	658	442	35	246	136	25 b	218	107 i	109
1961	620	685	473	49	285	108	31 b	212	99	113
1962	620	742	459	34	277	126	22 b	283	122 i	161
1963	700	708	440	39	233	160	8	270	129	141
1964	910	902	589	67	296	214	12	313	153	160
1965	1,020	1,186	826	112	496	200	18	359	180	179
1966	1,320	1,422	961	113	575	255	18	461	212	249
1967	1,490	1,585	1,122	122	581	399	20	463	226	237
1968	1,220	1,238	766	77	487	185	17	473	231	242
1969	1,620	1,421	879	133	555	158	33	543	263	280
1970	1,740	1,397	882	122	503	239	18	516	289	227
1971	1,290	1,197	755	135	374	228	18	442	262	180
1972	1,460	1,335	841	136	372	314	19	495	289	206
1973	1,990	1,530	997	119	508	344	26	531	304	227
1974	2,880	2,214	1,558	136	723	637	63	657	315	342
1975	2,930	2,718	1,959	294	832	807	26	759	412	347
1976	2,990	3,010	2,282	375	1,044	844	19	729	394	335
1977	3,480	3,295	2,367	301	1,115	934	17	928	507	421
1978	3,780	3,736	2,638	195	1,424	1,000	19	1,100	604	496
1979	5,180	4,447 *	3,231	240	1,714	1,229	48	1,216	725	491
1980	6,390	5,128 *	3,726	250	1,897	1,539	40	1,402	774	628
1981	5,950	5,202	3,957	521	2,435	974	27	1,245	746	499
1982	5,470	5,087	3,820	659	1,869	1,278	14	1,267	780	487
1983	5,730	4,987	3,497	916	2,239	527	15	1,290	820	470
1984	6,900	5,302	3,713	600	2,412	680	21	1,587	906	681
1985	8,140	6,273	4,290	745	2,484	1,043	18	1,982	1,218	764
1986	8,260	6,064	4,038	875	2,153	1,000	10	2,046	1,247	799
1987	8,540	5,753	3,764 *1)	231	2,760 1)	773	N.A. 3)	1,989	1,200 2)	789
1988	10,920	7,211	5,126 1)	309	3,300 1)	1,518	N.A. 3)	2,084	1,251 2)	833
1989	15,580	10,067	7,567 1)	697	5,237 1)	1,653	N.A. 3)	2,481	1,515 2)	965
1990	16,530	10,809	8,307 1)	1,054	4,277 1)	2,977	N.A. 3)	2,501	1,504 2)	998
1991	11,500	9,009	6,781 1)	991	3,638 1)	2,152	N.A. 3)	2,228	1,398 2)	830
1992	10,530 R	----------	----------	----------	----------	N.A.	----------	----------	----------	----------
1993	10,300 R	----------	----------	----------	----------	N.A.	----------	----------	----------	----------
1994	10,790 E	----------	----------	----------	----------	N.A.	----------	----------	----------	----------

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis.
Paper and Allied Products Establishments, Bureau of the Census.

NOTE: Establishment data for 1982, 1972, 1967, 1962, 1958, 1954 and 1947 from Census of Manufactures; data for other years from Survey of Manufactures.

(a) Expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published. (i) Imputed from available data.
N.A. - Not Available R - Revised E - Estimated by Department of Commerce
* - Based on revised sampling techniques which resulted in some understatement of the total.
1) Includes building paper. 2) Revised to SIC 267.
3) Building paper included in 262; insulating board moved to SIC 24, Lumber and Wood Products.

TABLE XXVIIA

CAPITAL EXPENDITURES FOR ENVIRONMENTAL PROTECTION PULP AND PAPER INDUSTRY 1966 - 1993

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal from Manufacturing	Total	Percent of Total Capital Expenditures
Through 1966	270	129	10	409	
1967	44	31 E	1 E	76	
1968	49	43	1	93	
1969	74	52	2	128	
1970	120	65	2	187	
1971	134	66	3	203	
1972	205	129	5	339	38%
1973	179	162	10	351	34%
1974	216	296	11	523	31%
1975	286	341	18	645	30%
1976	319	216	29	564	29%
1977	278	148	17	443	19%
1978	182	149	32	363	16%
1979	178	158	23	359	12%
1980	140	190	38	368	3%
1981	91	120	49	260	6%
1982	81	214	23	318	9%
1983	118	149	60	327	6%
1984	62	130	34	226	6%
1985	121	175	46	342	7%
1986	80	109	48	237	4%
1987	93	242	68	403	10%
1988	129	360	83	572	11%
1989	401	464	174	1,039	11%
1990	579	478	235	1,292	12%
1991	676	479	189	1,343	19%
1992	486	379	183	1,048	18%
1993 E	350	281	130	761	14%
Through 1993	5,941	5,755	1,524	13,220	N.A.
Planned 1994 E	412	289	263	964	N.A.

SOURCE: National Council of the Paper Industry for Air and Stream Improvement
R - Revised
E - Estimate
N.A. - Not Available

TABLE XXVIIB

PAPER AND ALLIED PRODUCTS COMPA EXPENDITURES ON RESEARCH & DEVELOPMENT 1966-1992

(Million Dollars)

YEAR	Total Expenditures
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	333
1978	387
1979	445
1980	495
1981	566
1982	566
1983	552
1984	594
1985	576
1986	538
1987	604
1988	664
1989	686
1990	730
1991 R	1,174
1992 P	1,191
1993	N.A.

SOURCE: National Science Foundation
P - Preliminary R - Revised
N.A. - Not Available

TABLE XXVIII

WOOD SUPPLY AND DEMAND

	Total	North-east	North Central	Great Plains	South-east	South Central	Pacific Northwest	Pacific Southwest	Inter-Mountain
	Million Acres								
Timberland in U.S., 1992	489.6	79.4	78.4	3.5	84.8	114.5	52.9	16.9	59.1
Ownership									
Total Private	358.1	70.8	56.7	2.4	75.6	103.2	23.7	7.8	17.9
Forest Industry Companies	70.5	11.9	4.3	0.0	16.3	22.8	9.0	3.3	2.9
Other Private	287.6	58.9	52.4	2.4	59.4	80.4	14.7	4.5	15.0
Total Public	131.5	8.7	21.6	1.1	9.2	11.3	29.2	9.1	41.2
National Forest	84.7	2.179	7.4	0.9	4.8	6.7	18.8	8.4	35.459
Other Public	46.8	6.497	14.264	0.2	4.3	4.6	10.4	0.8	5.8
	Million Cubic Feet								
All Species									
Total Growth	21,627	3,093	2,269	98	4,323	5,509	3,174	1,087	2,074
Removals	16,308	1,319	1,468	51	4,171	4,781	2,834	908	776
Ratio of Growth to Removal	1.33	2.34	1.55	1.93	1.04	1.15	1.12	1.20	2.67
Softwoods									
Total Growth	11,974	714	500	47	2,378	2,722	2,739	935	1,938
Removals	10,956	500	242	35	2,761	3,057	2,713	886	762
Ratio of Growth to Removal	1.09	1.43	2.07	1.35	0.86	0.89	1.01	1.06	2.54
Hardwoods									
Total Growth	9,652	2,379	1,769	51	1,945	2,787	434.8	151.3	135.8
Removals	5,352	820	1,226	16	1,410	1,724	121.1	21.7	13.8
Ratio of Growth to Removal	1.80	2.90	1.44	3.15	1.38	1.62	3.59	6.97	9.84

States by Region

Northeast	North Central	Great Plains	Southeast	South Central	Pacific Northwest	Pacific Southwest	Inter-Mountain
Connecticut	Illinois	Kansas	Florida	Alabama	Alaska	California	Arizona
Delaware	Indiana	Nebraska	Georgia	Arkansas	Oregon	Hawaii	Colorado
Maine	Iowa	North Dakota	N. Carolina	Kentucky	Washington		Idaho
Maryland	Michigan	South Dakota	S. Carolina	Louisiana			Montana
Massachusetts	Minnesota		Virginia	Mississippi			Nevada
New Hampshire	Missouri			Oklahoma			New Mexico
New Jersey	Ohio			Tennessee			Utah
New York	Wisconsin			Texas			Wyoming
Pennsylvania							
Rhode Island							
Vermont							
West Virginia							

SOURCE:
Forest Resources of the United States, 1992
Forest Service, U.S. Department of Agriculture
General Technical Report RM-234

SECTION IV

FINANCIAL DATA ON THE PAPER INDUSTRY

Sales of paper and allied products companies rose 2.9% in 1993 to $131.2 billion (see Table XXIX, page 66). However, the industry's profit margin remained under pressure, partly reflecting a global overhang of paper and paperboard capacity attributable to economic weakness abroad. In particular, pre-tax net profits declined 37% in 1993 to $1.2 billion, according to the Census Bureau's Quarterly Financial Report for Manufacturing, Mining and Trade Corporations. Net profits before taxes amounted to 0.9% of sales in 1993, versus a long-term average of 6.5% (1980-92).

The Bureau of Labor Statistics' producer price index for pulp, paper and converted products (excluding building paper and board) reflected the generally weak market conditions, falling by 1.2% from 1992 to 1993, to a level 4.0% below its 1990 high (Table XXXA and B). Declines in the indexes of wood pulp, paperboard, and converted products were only partially offset by modest increases in the overall paper category.

Dollar value shipments of paper and allied products (Table XXXI, page 70) were only available through 1991 at the time this report went to press. The delay reflects the fact that 1992 was a Census Year and that the more detailed data being compiled by the Bureau of the Census for 1992 requires additional time.

TABLE XXIX
PAPER AND ALLIED PRODUCTS INDUSTRY
PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA
1960 - 1993
(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Net Profit Before Taxes To Net Sales (%)	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Deprec!-ation	Cash Inflow	Gross Cash Flow
1960	11,764	1,135	9.6	546	587	5.0	480	1,069	1,613
1961	12,525	1,120	8.9	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	8.8	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	8.6	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	8.9	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	9.2	619	869	5.4	671	1,539	2,159
1965 2/	15,217	1,271	8.4	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	9.1	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	7.8	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	8.2	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	8.1	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	5.7	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	4.4	455	512	2.3	926	1,438	1,893
1971 2/	----------	----------	----------	----------	N.A.	----------	----------	----------	----------
1972	23,324	1,584	6.8	643	941	4.0	959	1,900	2,543
1973 1/	26,503	2,481	9.4	1,040	1,441	5.4	1,012	2,453	3,493
1973 2/	----------	----------	----------	----------	N.A.	----------	----------	----------	----------
1974 1/	30,799	3,692	12.0	1,511	2,183	7.1	1,032	3,215	4,724
1974 2/	32,837	3,792	11.5	1,502	2,287	7.0	1,063	3,350	4,855
1975	32,044	2,901	5.7	1,099	1,801	5.6	1,219	3,019	4,120
1976	39,270	3,643	9.3	1,374	2,270	5.8	1,382	3,652	5,025
1977 1/	41,926	3,442	8.2	1,207	2,234	5.3	1,548	3,782	4,989
1977 2/	45,750	3,632	7.9	1,266	2,367	5.2	1,663	4,030	5,296
1978 1/	49,683	4,097	8.2	1,447	2,648	5.3	1,767	4,415	5,864
1978 2/	48,982	4,036	8.2	1,436	2,598	5.3	1,726	4,324	5,762
1979	55,359	5,406	9.8	1,683	3,723	5.7	1,896	5,619	7,302
1980 1/	59,333	4,318	7.3	1,275	3,042	5.1	2,075	5,119	6,392
1980 2/	54,737	4,014	7.3	1,233	2,781	5.1	1,990	4,771	6,004
1980 3/E	56,250	4,045	7.2	1,245	2,800	5.0	2,026	4,826	6,071
1981 1/	62,502	4,728	7.6	1,621	3,108	5.0	2,253	5,361	6,981
1981 2/	62,699	4,728	7.5	1,617	3,110	5.0	2,267	5,377	6,995
1982	60,293	2,120	3.5	660	1,460	2.4	2,379	3,839	4,499
1983 1/	66,100	3,439	5.2	1,102	2,337	3.5	2,645	4,982	6,084
1983 2/	65,008	3,424	5.3	1,096	2,327	3.6	2,607	4,934	6,031
1984	71,891	4,812	6.7	1,798	3,015	4.2	2,798	5,813	7,611
1985 1/	71,761	4,424	6.2	1,533	2,891	4.0	3,107	5,998	7,531
1985 2/	71,465	4,399	6.2	1,519	2,880	4.0	3,099	5,979	7,498
1986 1/	74,896	5,318	7.1	2,025	3,293	4.4	3,390	6,683	8,708
1986 2/4/	74,844	5,298	7.1	2,018	3,280	4.4	3,389	6,669	8,687
1987 1/	86,603	8,077	9.3	3,088	4,989	5.8	3,827	8,816	11,904
1987 2/	95,576	8,860	9.3	3,338	5,520	5.8	4,279	9,799	13,139
1988 1/	107,014	12,204	11.4	4,127	8,077	7.5	4,620	12,697	16,824
1988 2/	107,221	12,210	11.4	4,129	8,081	7.5	4,625	12,706	16,835
1989 1/	112,238	10,771	9.6	3,771	7,000	6.2	4,954	11,954	15,725
1989 2/	113,573	10,865	9.6	3,819	7,047	6.2	5,010	12,057	15,875
1990 1/	114,686	7,187	6.3	2,343	4,844	4.2	5,535	10,379	12,722
1990 2/	115,523	7,236	6.3	2,353	4,882	4.2	5,578	10,460	12,814
1991 1/	111,962	3,475	3.1	1,154	2,322	2.1	5,793	8,115	9,268
1991 2/	122,969	3,573	2.9	1,409	2,164	1.8	6,504	8,668	10,077
1992 1/	127,356	1,994	1.6	763	1,231	1.0	6,961	8,192	8,955
1992 2/	127,562	1,929	1.5	732	1,196	0.9	6,974	8,170	8,903
1993 1/	131,232	1,217	0.9	1,419	(201)	N.M.	7,345	7,144	8,562

SOURCE: Yearly data calculated by AF&PA from Quarterly Financial Report for Manufacturing, Mining and Trade Corporations, now reported by the Bureau of Census.

NOTES: 1/ Data is from Source consistent with earlier reports. 2/ Revised series - change in corporations included in industry. 3/ Series revised based on change in adjustment factors. 4/ Excludes companies with less than $250,000 in assets.
Gross Cash Flow = Net Profit Before Taxes + Depreciation
N.A. - Not Available E - Estimated by API with assistance from FTC N.M. - Not Meaningful

TABLE XXIX (Cont.)
PAPER AND ALLIED PRODUCTS INDUSTRY
PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA
1960-1993
(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Net Cash Flow	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long-Term Debt	Total Capital	Net Profit After Taxes To Net Worth (%)
1960	312	275	755	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	786	11,051	10,447	5,857	7,612	1,719	9,331	7.7
1962	340	288	871	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	901	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	1,019	12,560	12,380	6,585	8,304	1,967	10,271	9.1
1965 1/	409	461	1,132	13,850	13,378	7,321	8,672	2,439	11,111	10.0
1965 2/	350	403	1,035	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	1,215	14,621	14,662	8,131	8,710	3,104	11,814	10.5
1967 2/	391	405	1,128	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	1,273	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	1,390	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	1,158	19,679	18,160	9,969	10,305	4,822	15,127	7.0
1971 1/	418	94	1,020	20,424	19,001	10,194	10,652	5,239	15,891	4.8
1971 2/	N.A.	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	1,523	19,810	18,816	9,903	10,615	4,973	15,588	8.9
1973 1/	416	1,025	2,037	21,377	19,998	10,616	11,536	5,073	15,609	12.5
1973 2/	N.A.	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
1974 1/	519	1,668	2,700	23,696	19,093	11,524	12,958	5,346	18,304	16.8
1974 2/	530	1,754	2,817	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	2,377	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	2,983	32,010	27,284	15,659	17,203	7,625	24,828	13.2
1977 1/	725	1,502	3,050	34,450	29,545	17,131	18,321	8,551	26,872	12.2
1977 2/	793	1,566	3,229	37,047	31,866	18,590	19,704	9,254	28,958	12.0
1978 1/	877	1,771	3,838	40,810	34,420	20,226	21,181	10,082	31,263	12.5
1978 2/	859	1,739	3,465	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	4,642	45,304	37,069	22,349	23,206	11,028	34,234	16.0
1980 1/	1,089	1,957	4,032	50,040	41,403	25,739	25,889	11,850	37,739	11.8
1980 2/	1,050	1,731	3,721	44,866	39,534	24,391	23,873	10,365	34,238	11.6
1980 3/	1,057	1,743	3,769	45,894	40,361	24,800	24,396	10,585	34,981	11.5
1981 1/	1,161	1,947	4,200	50,706	44,942	27,747	26,452	11,633	38,085	11.7
1981 2/	1,126	1,984	4,251	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	2,735	52,915	48,235	29,711	26,705	13,149	39,854	5.5
1983 1/	1,139	1,197	3,842	56,126	51,692	32,208	27,509	13,946	41,455	8.5
1983 2/	1,137	1,191	3,798	54,821	50,957	31,826	27,219	13,565	40,784	8.5
1984	1,217	1,798	4,596	58,520	53,882	34,563	28,160	13,802	41,962	10.7
1985 1/	1,242	1,649	4,756	62,613	60,485	38,881	29,780	15,262	45,042	9.7
1985 2/	1,240	1,640	4,739	62,505	60,341	38,835	29,694	15,262	44,956	9.7
1986 1/	1,361	1,932	5,322	69,132	64,902	42,339	31,254	18,920	50,174	10.5
1986 2/	1,356	1,924	5,313	69,082	64,902	42,339	31,221	18,906	50,127	10.5
1987 1/	1,478	3,511	7,338	76,791	70,856	45,898	35,102	20,152	55,254	14.2
1987 2/	1,687	3,833	8,112	85,279	78,495	50,634	39,217	22,417	61,634	14.1
1988 1/	1,700	6,377	10,997	95,295	85,747	55,439	42,933	27,068	70,001	18.8
1988 2/	1,700	6,381	11,006	95,444	85,830	55,520	42,940	27,180	70,120	18.8
1989 1/	3,163	3,836	8,790	107,572	96,336	62,723	45,888	33,193	79,081	15.3
1989 2/	3,183	3,864	8,874	109,038	96,449	62,804	45,642	34,543	80,185	15.4
1990 1/	2,407	2,437	7,972	116,812	104,734	68,096	46,462	39,961	86,423	10.4
1990 2/	2,351	2,530	8,108	117,335	105,489	68,726	45,951	40,720	86,671	10.6
1991 1/	2,275	46	5,839	120,492	110,997	70,693	46,006	43,867	89,873	5.0
1991 2/	2,450	(286)	6,218	130,748	121,850	77,432	48,642	47,436	96,078	4.4
1992 1/	2,391	(1,160)	5,801	138,036	131,316	81,645	48,080	50,383	98,463	2.6
1992 2/	2,391	(1,195)	5,779	138,246	131,516	81,834	47,504	50,709	98,213	2.5
1993 1/	2,192	(2,394)	4,951	141,052	138,964	84,111	44,689	52,673	97,362	N.M.

See Page 66 for footnotes
Net Cash Flow = Retained Earnings + Depreciation
Cash Inflow = Net Profit After Taxes + Depreciation
Total Capital = Net Worth + Long-Term Debt

TABLE XXXA
PRODUCER PRICE INDEXES
FOR COMMODITY GROUPING AND INDIVIDUAL ITEMS
WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS
1987 - 1993
(Index 1982 = 100)

	1982 BLS Price Code	1986	1987	1988	1989	1990	1991	1992	1993
PULP, PAPER & ALLIED PRODUCTS	09	116.1	121.8	130.4	137.8	141.2	142.9	145.2	147.3
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	091	107.6	114.3	124.9	132.4	132.9	129.8	129.2	127.6
Wood Pulp Sub-Group	0911	94.7	111.5	136.7	157.4	151.3	119.2	118.9	104.2
Paper Making Wood pulp	091102	95.6	120.6	151.6	175.0	162.6	120.1	121.0	102.8
Softwood sulfate, bleached and semibleached	09110211	98.1	124.3	155.1	182.5	173.5	132.9	130.5	111.2
Hardwood sulfate, bleached and semibleached	09110212	97.0	115.0	147.8	165.3	147.1	97.8	99.8	83.9
Sulfite and other **	09110223	110.0	116.3	124.5	129.5	115.2	94.7	97.4	87.1
Dissolving Wood Pulp	091103	96.2	98.6	111.4	132.4	136.7	124.8	118.7	115.0
Waste Paper Sub-Group	0912	142.6	181.4	183.6	157.1	138.9	121.4	117.5	117.4
News	091201	191.3	243.9	239.9	124.4	104.2	101.9	91.4	100.9
Mixed	091202	129.0	153.1	168.7	115.3	86.9	64.1	64.5	90.2
Corrugated	091203	238.1	313.3	250.5	180.4	165.6	165.0	146.4	142.3
High Grades (Pulp.substit. & deink.) *	091207	N.A.	109.6	131.9	136.2	120.0	96.8	99.4	95.4
Exports*	091208	N.A.	125.9	128.8	113.9	101.2	91.2	90.0	83.3
Paper Sub-Group	0913	107.0	111.5	123.2	129.6	128.8	126.9	123.2	123.8
Writing Papers, excluding Newsprint	091301	107.9	110.6	123.4	130.5	129.1	124.8	120.2	120.5
Uncoated groundwood, publ. and printg.	09130111	103.3	107.7	115.3	118.7	117.4	117.2	110.8	111.1
No. 3 clay coated, 2-sides	09130113	115.3	116.9	124.2	129.9	130.2	128.6	123.2	123.2
No. 5 clay coated, 2-sides	09130115	116.1	108.3	125.6	129.6	127.0	121.8	118.5	123.3
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	116.4	117.4	126.3	131.7	132.1	130.2	126.9	126.7
Printing Paper, Ctd. 1 Side	09130117	111.2	116.1	126.5	133.5	137.6	138.4	139.9	142.0
Offset uncoated book paper	09130122	101.7	105.3	118.4	125.5	122.6	116.0	112.7	112.5
Uncoated publ. & prntg. free sheet	09130123	98.9	103.9	N.A.	123.2	123.2	121.9	121.3	120.9
Unwatermarked bond, no. 4 grade	09130131	102.1	103.6	117.1	127.9	123.1	119.8	115.0	115.8
Watermarked bond	09130132	N.A.	N.A.	128.8	136.5	136.9	137.0	137.8	140.0
12 lb. form bond, in rolls	09130133	N.A.	N.A.	123.6	127.4	124.9	106.9	97.8	N.A.
16 lb. form bond, in rolls	09130134	93.8	102.4	117.7	121.8	119.2	107.5	103.2	98.1
Form bond, in rolls, excl. 12- and 16 lb.	09130135	96.0	104.3	121.3	124.3	122.4	113.2	98.9	99.3
Other Bond	09130136	107.9	111.2	126.5	138.1	133.5	124.2	116.2	113.4
Other misc, free sheet, n.e.c.	09130137	103.9	110.6	131.6	140.9	138.8	124.6	111.7	111.7
Cover & text papers	09130148	115.5	122.6	131.9	138.7	139.7	138.4	137.8	138.8
Newsprint	09130291	103.3	112.3	127.6	122.5	119.6	120.9	109.8	112.1
Packaging and industrial converting	091303	106.9	116.0	125.7	134.5	135.8	137.7	138.7	139.0
Wrapping paper, unbleached kraft	09130301	N.A.	N.A.	155.9	167.8	168.5	168.5	168.5	168.7
Wrapping paper, excl. unbl. kraft	09130302	107.0	109.2	116.0	124.7	131.0	129.6	132.0	133.6
Shipping sack paper, unbl. kraft	09130304	102.6	118.0	131.3	143.5	N.A.	N.A.	N.A.	N.A.
Bag and sack paper, unbl. kraft	09130307	106.5	126.0	137.7	148.2	148.9	148.9	153.0	153.3
Bag and sack paper, exc. unbl. kraft	09130308	108.6	112.0	123.8	130.7	132.4	133.7	133.4	130.9
Packaging/ind. conv., unbl. kraft	09130311	102.7	117.9	132.2	142.8	143.4	146.3	147.5	N.A.
Packaging/ind. conv., exc, unbl. kraft	09130312	104.3	109.9	114.0	122.3	122.9	124.1	124.1	124.1
Glassine, greaseproof and veg. parchment	09130314	123.2	131.4	138.3	142.8	142.7	141.8	138.5	138.2
Tissue paper Jun/83	09130323	N.A.	134.5	143.0	152.2	154.4	153.5	152.8	152.9
Special industrial paper	091304	105.5	108.2	118.3	132.7	132.6	133.7	135.1	136.2
Paperboard	0914	106.6	118.1	133.2	140.1	135.7	130.2	134.3	130.0
Corrugated paperboard in sheet & rolls	09140551	104.6	117.9	130.6	134.3	128.8	123.8	127.6	123.8
Paperboard, exc. corrugated **	091411	111.7	123.7	139.6	147.1	142.6	136.8	141.1	136.6
Unbleached linerboard **	09141101	116.3	135.3	161.3	165.3	155.2	143.6	149.4	139.5
Bleached pckg. & indus. conv. paperboard**	09141103	106.9	107.4	113.3	131.5	135.5	136.8	138.0	136.4
Semichemical paperboard **	09141104	110.0	133.2	150.1	151.9	137.1	120.5	128.5	125.5
Recycled paperboard **	09141105	107.7	114.3	124.1	129.0	128.7	129.0	131.9	132.2
Converted paper and paperboard products	0915	109.4	114.7	123.0	131.7	135.2	134.8	134.8	133.7
Sanitary paper products, inc. stock.	091501	108.1	109.0	115.0	126.0	135.3	136.2	136.9	134.6
Paper bags and shipping sacks	091502	116.9	126.0	141.1	154.0	156.6	154.4	146.4	145.7
Paper boxes and containers	091503	107.8	115.4	123.5	129.8	129.9	128.0	130.6	129.9
Gummed products	09150431	104.2	107.9	114.1	120.4	123.1	123.8	125.3	N.A.
Office supplies and accessories	091506	106.1	108.3	114.9	121.6	121.4	119.5	116.4	115.3
Fiber and composite cans & rel. prod.	091507	115.1	117.1	123.5	133.9	147.8	149.8	151.4	151.6
Pressed and molded pulp goods June 1985 = 100	091508	101.3	101.8	103.5	110.6	114.1	117.1	117.4	117.7
Misc. converted paper and board prod. Dec. 1984 = 100	091509	100.7	103.2	109.1	116.6	117.7	120.6	122.7	123.6
Pressure sensitive products **	0916	108.2	109.4	115.0	121.4	124.5	129.0	129.9	130.0
Building paper and building board mill prod	092	108.8	111.2	113.3	115.6	112.2	111.8	119.6	132.7
Publications, printed matter and printing mat.	093	123.3	128.1	134.7	142.1	148.4	154.8	159.6	164.9
All commodities		100.2	102.8	106.9	112.2	116.3	116.5	117.2	118.9
Industrial commodities		100.0	102.6	106.3	111.6	115.8	116.5	117.4	119.0

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C.
N.A. - Not Available * Dec. 1986 = 100 ** Dec. 1982 = 100 n.e.c. - not elsewhere classified

TABLE XXXB
PRODUCER PRICE INDEXES
FOR THE NET OUTPUT OF SELECTED INDUSTRIES AND PRODUCTS
PAPER AND ALLIED PRODUCTS
1987 - 1993

	Product Codes	Index Base	1987	1988	1989	1990	1991	1992	1993
PAPER AND ALLIED PRODUCTS	26	12/84	104.8	113.7	120.8	121.9	121.1	121.2	120.2
Pulp mills	2611	12/82	117.0	141.7	161.3	153.8	121.8	118.5	105.8
Primary products	2611-P	12/82	122.0	147.5	169.4	162.3	127.3	124.9	111.2
Special alpha and dissolving woodpulp	2611-1	12/82	101.6	114.9	136.6	141.0	128.6	122.4	118.5
Other pulp, including pulpmill byproducts, except tall oil	2611-2	12/82	132.2	163.9	187.0	175.9	132.4	131.1	113.6
Woodpulp	2611-21	12/82	133.3	167.0	191.6	176.3	127.7	127.7	108.6
Bleached sulfate, hardwood	*2611-21341	12/82	134.4	167.6	197.3	187.6	143.7	141.1	94.2
Bleached sulfate, softwood	*2611-21342	12/82	129.2	166.0	185.7	165.2	109.9	112.1	120.3
Paper mill products except building paper	2621	6/81	115.7	127.4	134.6	134.0	131.0	126.6	126.6
Primary products	2621-P	6/81	116.1	127.8	134.6	134.4	131.9	127.3	127.8
Tissue paper and sanitary paper stock	2621-A	6/81	119.0	126.2	135.5	139.8	139.0	136.2	136.2
Sanitary papers, including stock, made in paper mills	*2621-A4	6/81	117.8	124.8	134.1	138.5	137.7	134.8	134.8
Newsprint	2621-1	6/81	117.4	133.0	127.7	124.7	126.0	114.5	116.9
Groundwood paper, uncoated	2621-2	6/81	113.0	120.0	124.6	124.1	125.2	118.1	118.4
Publication and printing	2621-211	6/81	112.7	120.7	124.3	122.9	124.1	116.0	116.3
Clay coated printing and converting paper	2621-3	6/81	121.0	133.6	138.9	137.9	134.4	130.4	132.7
Coated 2-sides	*2621-36	6/81	119.9	132.5	137.5	136.2	132.4	128.3	130.6
No. 3 coated 2-sides	*2621-363	6/81	123.9	131.7	137.6	138.0	136.3	130.5	130.5
No. 5 Coated 2-sides	*2621-365	6/81	109.6	127.2	131.2	128.6	123.3	120.0	124.8
Coated 2-sides except No.3 and No.5	*2621-366	6/81	122.4	131.8	137.5	137.5	135.3	131.0	130.4
Book paper, uncoated free sheet	2621-4	6/81	108.2	123.0	131.6	128.9	121.6	115.0	114.3
Chemical woodpulp writing paper, except body stock	2621-421	6/81	105.7	121.6	130.4	126.8	118.9	111.0	109.7
Unwatermarked bond, no. 4 grade	2621-42111	6/81	106.0	119.8	130.9	126.0	122.6	117.7	118.5
Watermarked bond	2621-4212	6/81	N.A.	133.6	141.6	142.1	142.2	143.0	145.2
Form bond in rolls, 15 lb.	2621-42155	6/81	101.2	116.2	120.3	117.7	106.1	101.9	96.9
Publication and printing grade free sheet	2621-441	6/81	108.7	119.9	127.7	125.8	121.0	118.6	118.3
Plain (inc M.F., E.F., supercal'd,eggshell and antique grades)	2621-44111	12/87	N.A.	108.3	115.5	117.1	114.5	112.5	111.5
Offset	2621-44122	6/81	107.8	121.3	128.6	125.5	118.8	115.4	115.2
Cover and text papers	2621-465	6/81	129.8	138.6	146.8	147.8	146.5	145.9	146.9
Unbleached kraft packaging and industrial converting paper	2621-7	6/81	118.4	129.9	141.0	142.5	147.0	150.2	152.2
Wrappping	2621-711	6/81	N.A.	161.8	174.1	174.9	174.9	174.9	175.1
Shipping Sack	2621-731	6/81	112.6	125.3	136.9	N.A.	N.A.	N.A.	N.A.
Bag and sack, other than shipping sack	2621-751	6/81	115.7	126.5	136.2	136.8	136.8	140.6	140.8
Other unbl'd kraft packaging and industrial converting paper	2621-761	6/81	117.7	131.9	142.5	143.1	145.9	147.1	N.A.
Packaging and industrial converting paper, except unbl. kraft	2621-8	6/81	121.5	128.1	135.4	136.1	136.5	135.5	134.9
Wrapping	2621-811	6/81	114.6	121.7	130.9	137.5	136.0	138.5	140.2
Bag and sack, other than shipping sack	2621-851	6/81	113.7	125.7	132.6	134.4	135.7	135.4	132.9
Other packaging and industrial converting, except unbl. kraft	2621-861	6/81	110.8	115.0	123.3	123.9	125.1	125.1	125.1
Glassine, greaseproof, and vegetable parchment	2621-881	6/81	135.5	142.6	147.2	147.2	146.2	142.8	142.5
Special industrial paper	2621-9	6/81	112.8	123.3	138.3	138.2	139.4	140.9	142.0
Paperboard mills	2631	12/82	126.5	141.6	149.9	146.0	140.7	142.6	138.3
Primary products	2631-P	12/82	123.1	138.9	146.2	141.7	136.0	140.2	135.8
Unbleached kraft packag'g and industrial converting paperboard	2631-1	12/82	133.4	157.3	162.0	153.5	143.2	148.8	139.8
Unbleached linerboard	2631-111	12/82	135.2	161.3	165.3	155.3	143.6	149.4	139.5
42 lb. kraft linerboard	2631-11101	12/82	138.3	159.8	163.8	154.4	142.8	149.0	141.0
Other unbleached linerboard	2631-11102	12/82	133.5	162.1	166.0	155.0	143.5	148.5	136.0
Bleached packaging and industrial converting paperboard	2631-2	12/82	107.4	113.3	131.5	135.5	136.8	138.0	136.4
Linerboard	2631-211	12/82	118.8	N.A.	134.1	128.2	121.3	124.6	123.7
Folding carton-type board	2631-241	12/82	105.5	111.6	128.2	133.6	136.5	138.8	136.2
Bleached paperboard for moist, liquid or oily foods	2631-26	12/88	N.A.	N.A.	111.5	114.1	114.5	114.5	113.8
Corrugating medium (semichemical)	2631-321	12/82	133.2	150.1	151.9	137.1	120.5	128.5	125.5
Recycled paperboard	2631-4	12/82	114.3	124.1	129.0	128.6	129.0	131.9	132.2
Linerboard (less than 80% virgin fiber)	2631-411	12/82	125.6	141.1	143.6	137.5	134.7	136.0	127.6
Container chip and filler board	2631-431	12/82	117.8	128.1	130.7	130.7	131.5	131.5	N.A.
Folding carton board	2631-44	12/88	N.A.	N.A.	104.4	109.9	114.0	113.3	112.8
Unlined chipboard	2631-443	12/82	111.5	N.A.	121.1	124.3	123.2	123.0	122.5
Kraft-lined folding carton board	2631-444	02/83	N.A.	N.A.	124.8	125.3	125.5	125.5	125.5
White-lined folding carton board	2631-445	12/82	106.7	116.2	120.6	120.8	120.8	123.0	124.6
Clay-coated folding carton board	2631-446	12/82	99.4	104.9	114.7	123.6	131.4	129.7	128.6
Other recycled paperboard	2631-48	12/82	116.6	N.A.	100.9	101.9	103.4	108.7	109.0
Paper coating and glazing	2641	12/82	112.7	119.0	126.0	129.4	132.8	133.3	N.A.
Bags, except textile bags	2673 R	12/83	120.0	135.4	148.3	150.2	147.3	142.9	142.2
Paperboard containers and Boxes	265	12/84	104.2	111.7	117.2	117.7	116.6	118.5	118.0

SOURCE: Annual Supplement to Producer Price Indexes, Table 3, Bureau of Labor Statistics, U.S. Department of Labor
NOTES: N.A. - Not Available * Codes changed to 1988 categories R - Revised
Product Code 2643 (Bags, except textile bags) was revised to 2673 by the BLS.

TABLE XXXI
GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1991

CODE	INDUSTRY GROUP & INDUSTRY	All Employees Number (000)	All Employees Payroll ($ Mil.)	Production Workers Number (000)	Production Workers Hours (Mil.)	Production Workers Wages ($ Mil)	Value Added by Manufacture ($ Mil)	Cost of Materials ($ Mil)	Value of Industry Shipments ($ Mil)	New Capital Expenditures ($ Mil)
26	PAPER AND ALLIED PRODUCTS	620.7	19,382.7	476.5	1,001.4	13,353.1	58,280.7	70,605.0	128,824.1	9,008.7
2611	Pulp Mills	16.8	697.3	12.8	27.6	506.6	2,446.2	2,889.8	5,329.4	990.9
2621	Paper Mills, exc. Bldg. Paper	130.3	5,223.5	99.4	212.1	3,778.7	15,510.3	17,983.1	33,344.0	3,637.7
2631	Paperboard Mills	50.6	2,027.4	39.0	86.5	1,461.5	7,257.2	7,781.1	15,013.1	2,152.3
265	Paperboard Containers and Boxes	198.6	5,391.6	152.8	317.4	3,486.3	11,530.5	19,047.6	30,577.4	830.0
2652	Setup Paperboard Boxes	8.7	149.8	7.3	14.0	102.2	305.1	249.8	554.9	11.0
2653	Corrugated, and Solid Fiber Boxes	108.7	3,047.4	79.4	166.1	1,843.5	6,063.9	11,959.9	18,025.9	468.1
2655	Fiber Cans,Drums,Similar Prod.	12.9	340.5	10.7	22.5	247.1	770.7	1,138.7	1,912.2	41.6
2656	Sanitary Food Containers	17.6	410.9	14.4	28.6	295.9	1,138.5	1,571.8	2,715.6	55.5
2657	Folding Paperboard Boxes	50.7	1,443.0	40.9	86.1	997.7	3,252.3	4,127.5	7,368.7	253.8
267	Misc.Converted Paper Products	224.3	6,042.9	172.5	357.8	4,120.0	21,536.6	22,903.6	44,560.3	1,397.8
2671	Paper Coated and Laminated.Pkg.	15.4	492.1	11.0	24.0	311.0	1,261.1	1,907.0	3,145.8	122.7
2672	Paper Coated and Laminated,n.e.c.	34.2	991.5	23.1	46.8	575.2	3,401.1	3,951.5	7,381.1	243.3
2673	Bags:Plastics,Laminated & Coated	35.4	875.1	28.5	61.0	621.1	2,364.3	2,685.8	5,083.6	178.3
2674	Bags:Uncoated Paper & Multiwall	17.9	398.4	15.0	29.7	298.9	895.5	1,837.4	2,735.8	50.6
2675	Die-cut Paper & Board	17.0	407.5	14.0	28.2	279.3	1,053.1	1,240.5	2,290.6	91.3
2676	Sanitary Paper Products	38.8	1,342.9	31.1	65.5	1,011.7	8,747.0	6,818.0	15,593.5	460.6
2677	Envelopes	24.5	615.5	19.0	38.8	410.1	1,195.1	1,458.1	2,668.9	43.9
2678	Stationery Products	10.1	209.3	7.6	15.1	137.7	602.2	746.1	1,359.1	25.0
2679	Converted Paper Products,n.e.c.	30.9	710.6	23.4	48.7	474.9	2,017.1	2,259.2	4,301.9	182.1

1990

CODE	INDUSTRY GROUP & INDUSTRY	All Employees Number (000)	All Employees Payroll ($ Mil.)	Production Workers Number (000)	Production Workers Hours (Mil.)	Production Workers Wages ($ Mil)	Value Added by Manufacture ($ Mil)	Cost of Materials ($ Mil)	Value of Industry Shipments ($ Mil)	New Capital Expenditures ($ Mil)
26	PAPER AND ALLIED PRODUCTS	628.1	18,945.7	479.8	1,009.2	13,045.1	59,823.3	71,878.9	131,444.6	10,809.2
2611	Pulp Mills	16.1	668.0	12.3	27.7	484.3	3,416.4	2,885.3	6,239.1	1,053.6
2621	Paper Mills, exc. Bldg. Paper	130.1	5,061.5	98.6	210.6	3,670.6	16,599.8	18,861.1	35,321.8	4,277.5
2631	Paperboard Mills	53.1	2,048.7	40.7	90.5	1,487.7	8,123.0	7,804.8	15,919.3	2,976.6
265	Paperboard Containers and Boxes	200.3	5,244.6	153.4	319.3	3,391.4	11,082.1	19,414.2	30,510.4	997.9
2652	Setup Paperboard Boxes	8.8	145.9	7.5	14.5	101.8	312.9	259.0	565.1	14.4
2653	Corrugated, and Solid Fiber Boxes	110.1	2,983.7	80.0	168.0	1,797.5	5,901.9	12,655.7	18,572.2	606.5
2655	Fiber Cans,Drums,Similar Prod.	13.3	341.3	11.1	22.9	247.7	750.6	1,134.9	1,884.9	45.8
2656	Sanitary Food Containers	17.5	392.3	14.3	28.0	289.2	1,074.4	1,454.7	2,518.7	51.4
2657	Folding Paperboard Boxes	50.7	1,381.5	40.6	85.9	955.2	3,042.4	3,910.0	6,969.4	279.8
267	Misc.Converted Paper Products	228.5	5,922.9	174.8	361.1	4,011.0	20,602.0	22,913.5	43,454.0	1,503.5
2671	Paper Coated and Laminated.Pkg.	16.4	488.5	11.4	23.8	299.7	1,133.4	1,899.1	3,026.7	101.4
2672	Paper Coated and Laminated,n.e.c.	35.0	985.4	23.5	48.2	577.4	3,321.0	3,736.4	7,077.8	290.8
2673	Bags:Plastics,Laminated & Coated	37.4	869.9	30.0	63.7	611.7	2,625.1	2,870.3	5,494.6	213.1
2674	Bags:Uncoated Paper & Multiwall	16.9	374.3	14.3	29.0	282.3	877.1	1,881.8	2,750.1	63.8
2675	Die-cut Paper & Board	16.8	395.4	13.5	27.0	253.8	1,045.7	1,068.8	2,119.0	44.1
2676	Sanitary Paper Products	39.0	1,299.2	31.0	65.3	986.7	7,896.2	6,887.4	14,709.2	526.2
2677	Envelopes	26.1	648.4	20.3	42.4	432.6	1,194.9	1,620.6	2,816.6	66.8
2678	Stationery Products	10.1	202.6	7.6	14.6	132.2	577.9	751.2	1,332.1	42.1
2679	Converted Paper Products,n.e.c.	30.7	659.2	23.2	47.0	434.6	1,930.7	2,197.9	4,127.9	155.2

SOURCE: Department of Commerce, Bureau of the Census: 1991 Annual Survey of Manufactures. n.e.c. - not elsewhere classified

SECTION V

SUPPLEMENT

Tables XXXII and XXXIII present data on production, imports, exports and new supply of wet machine board and total construction paper and paperboard, for the years 1950 through 1993. The production data for 1982-1993 are AF&PA estimates; the other data are drawn from Bureau of the Census reports.

Table XXXIV shows the data on imports of paper and paperboard, taken from sources other than the Bureau of the Census, used in computing some of the new supply totals presented in Table VIII.

AF&PA believes that the Bureau of Census data overstates newsprint and understates groundwood paper imports. The figures shown in Table XXXIV replace the Census data on imports of these grades from Canada with reports from the Canadian Pulp and Paper Association on shipments of newsprint and groundwood papers from Canada to the United States.

The data on imports of the other printing papers, drawn from Census reports, are included here for completion.

Table XXXV reports the export data used in calculating paperboard new supply. The figures on kraft and semichemical paperboard are the production for export figures reported by AF&PA's Containerboard and Kraft Paper Group, while the bleached board and recycled numbers come from similar reports by the AF&PA's Paperboard Group.

New supply of the other paper grades, and construction and wet machine board, utilize the Census data on imports and exports shown in Tables XI and XII.

Table XXXVI summarizes the current status and recent trends of the paper and allied products industry.

This section also includes a report index.

TABLE XXXII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

CENSUS DATA

1950 - 1993

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	146,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,617	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981	160,293	1,684	10,812	151,165
1982	129,000 E	1,842	11,089	120,000 E
1983	140,000 E	3,584	11,624	132,000 E
1984	140,000 E	2,826	13,782	129,000 E
1985	130,000 E	3,270	13,380	120,000 E
1986	130,000 E	3,235	18,893	114,000 E
1987	120,000 E	3,463	17,328	106,000 E
1988	100,000 E	4,239	11,691	93,000 E
1989	100,000 E	606	2,889	97,717 E
1990	100,000 E	1,132	487	100,645 E
1991	100,000 E	930	955	99,975 E
1992	100,000 E	933	883	100,050 E
1993	100,000 E	924	596	100,328 E

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division; Current Industrial Reports: Pulp, Paper and Board, Annual Issues through 1981. Imports and Exports - Foreign Trade Division, Department of Commerce.

NOTES: New Supply - Production plus imports less exports. E - Estimated by American Forest & Paper Association

TABLE XXXIII

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

CENSUS DATA

1950 - 1993

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,433,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,398	26,591	26,539	2,679,150
1968	2,906,986	28,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,006	3,236,910
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129
1981	1,989,203	396,496	68,832	2,316,867
1982	1,533,000 E	419,515	47,833	1,905,000 E
1983	1,660,000 E	473,667	55,746	2,078,000 E
1984	1,660,000 E	496,830	63,890	2,093,000 E
1985	1,570,000 E	413,196	55,429	1,927,800 E
1986	1,470,000 E	336,409	75,149	1,731,000 E
1987	1,470,000 E	305,985	90,024	1,686,000 E
1988	1,400,000 E	318,206	120,185	1,598,000 E
1989	1,470,000 E	189,119	33,388	1,626,000 E
1990	1,470,000 E	140,110	9,384	1,601,000 E
1991	1,500,000 E	92,797	19,258	1,574,000 E
1992	1,500,000 E	135,854	23,781	1,612,000 E
1993	1,500,000 E	139,277	25,887	1,613,000 E

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division; Current Industrial Reports: Pulp, Paper and Board, Annual Issues through 1981.
Imports and Exports - Foreign Trade Division, Department of Commerce.

NOTES: New Supply - Production plus imports less exports.
E - Estimated by American Forest & Paper Association.

TABLE XXXIV

IMPORTS

1960 - 1993

(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Thin Papers	Bleached Bristols	Total Printing/ Writing
1960	5,426	39.5	-	1.8	3.0	0.5	44.8
1961	5,382	35.9	-	3.4	3.0	0.5	42.8
1962	5,415	41.5	-	3.8	3.0	0.4	48.7
1963	5,398	77.2	-	5.3	3.0	0.5	53.0
1964	5,908	70.6	-	11.2	7.0	0.5	89.3
1965	6,349	98.1	0.9	10.7	9.0	0.4	119.1
1966	6,884	132.9	0.9	14.2	11.0	0.3	159.3
1967	6,546	147.5	1.4	34.7	13.0	0.5	197.1
1968	6,391	136.8	1.3	13.4	12.0	0.3	163.8
1969	6,724	216.9	3.3	15.4	10.0	0.4	246.0
1970	6,477	232.9	3.5	48.9	8.0	0.4	293.7
1971	6,463	244.2	4.7	108.5	7.0	0.5	364.9
1972	6,758	225.1	4.5	93.3	6.0	0.5	329.4
1973	7,236	237.1	12.3	120.2	15.0	1.0	385.6
1974	7,452	321.3	16.3	138.9	18.0	3.5	498.0
1975	5,522	264.0	4.7	86.9	9.0	0.7	374.3
1976	6,308	338.1	15.5	133.9	12.0	0.6	500.1
1977	6,339	443.2	111.6	155.3	13.0	17.0 #	740.1
1978	7,102	610.7	213.7	112.7	7.3	15.9	959.7
1979	7,168	694.5	188.7	141.7	14.9	16.2	1,053.8
1980	6,880	688.1	114.8	119.0	6.3	14.2	941.3
1981	6,721	650.0	39.0	119.5	12.0	7.9	827.5
1982	6,202	665.1	69.1	157.0	11.3	14.6	917.1
1983	6,651	991.8	162.4	222.8	20.3	19.7	1,417.0
1984	7,378	1,393.4	428.4	459.0	46.4	24.1	2,351.3
1985	7,635	1,475.7	496.2	379.3	23.7	22.5	2,397.4
1986	7,686	1,595.1	501.2	476.2	45.4	28.3	2,646.2
1987	8,189	1,753.2	674.4	433.0	47.6	28.0	2,936.2
1988	8,007	1,911.8	797.7	616.1	55.8	51.5	3,432.9
1989	7,664	1,873.3	774.0	583.4	12.7	59.1	3,302.5
1990	7,261	1,982.1	936.0	752.4	14.3	67.4	3,752.3
1991	6,444	1,953.0	794.1	674.9	14.6	82.0	3,518.7
1992	6,362 R	2,214.7 R	830.1	802.1	11.8	110.3	3,969.1 R
1993	6,553	2,652.4	1,136.9	991.2	6.8	115.8	4,903.2

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census.
Uncoated Groundwood - Imports from Canada, CPPA; Imports from other countries, Bureau of the Census.
All other Imports, Bureau of the Census.

NOTES: Imports used to compute new supply for Table VIII.
Series revised to include cut size paper. R - Revised.

TABLE XXXV

EXPORTS

1960 - 1993

(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers **	Thin Papers *	Bleached Bristols	Total Printing/ Writing	Unbleached Kraft Paperboard	Semichem. Paperboard	Bleached Paperboard	Recycled Paperboard
1960	8.6	26.1	38.2	15.0	0.8	88.7	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6	15.0	0.9	82.4	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3	15.0	1.3	81.0	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1	14.0	1.7	84.0	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4	16.0	1.9	102.0	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0	29.0	0.0	109.7	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6	32.0	0.0	116.0	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3	31.0	0.0	109.5	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9	47.0	0.0	143.9	1,380.7	94.0	108.5	12.9
1969	6.1	70.0	35.3	56.0	0.0	167.4	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3	58.0	0.0	181.8	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2	74.0	0.0	202.3	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6	68.0	0.0	212.4	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	65.0	87.0	0.0	262.3	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4	106.0	0.0	358.5	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8	80.0	0.0	397.3	1,058.0	115.4	256.2	23.8
1976	70.6	106.7	147.3	102.0	0.0	426.6	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4	76.0	0.0	340.4	1,289.6	121.9	389.4	29.5
1978	58.1	73.7	97.1	26.5	10.7	266.4	1,466.3	119.2	432.9	21.5
1979	80.4	73.5	79.0	32.4	9.2	274.2	1,645.9	98.2	496.7	21.8
1980	101.0	92.8	104.9	33.8	8.8	341.3	2,379.9	322.3	549.6	82.6
1981	119.7	88.6	125.9	42.7	6.4	383.3	1,886.5	155.2	556.4	23.8
1982	55.9	81.4	77.2	27.7	4.4	246.6	1,931.5	184.9	524.7	12.7
1983	37.5	79.2	64.1	17.6	3.7	202.1	2,280.7	192.6	514.4	24.3
1984	30.2	85.6	70.5	14.0	3.0	203.3	2,086.4	149.2	478.3	17.4
1985	36.7	82.5	68.7	13.3	1.4	202.6	1,830.0	189.4	465.6	26.3
1986	40.9	78.0	54.5	14.5	2.4	190.3	2,236.6	212.5	568.7	70.2
1987	55.7	100.7	72.0	18.4	2.1	248.9	2,302.8	192.5	618.9	75.4
1988	70.3	97.5	88.7	28.1	2.6	287.2	2,295.6	136.3	632.9	72.0
1989	88.1	168.5	122.3	52.5	46.7	478.2	2,363.0	137.6	707.9	38.0
1990	75.3	218.7	232.4	63.3	75.2	664.8	2,690.6	142.5	761.0	49.3
1991	116.6	276.9	356.4	91.7	91.1	932.6	3,322.7	170.2	790.7	79.4
1992	116.0	360.8	449.0	135.9	96.5	1,158.2	3,319.9	180.1	812.4	73.8
1993	109.4	342.0	425.3	119.7	124.0	1,120.4	3,209.2	165.0	794.7	79.0

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation.
Paperboard Grades - 1960 - 1967, Bureau of the Census; 1968 - 1993, AF&PA (See Table VII).

NOTES: Exports used to compute new supply for Table VIII.

* Includes Cotton Fiber Papers, 1960-1977.

** Includes Cotton Fiber Papers, 1978-1993; see page 39 for Cotton Fiber details.

TABLE XXXVI

THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE UNITED STATES

Value of Shipments ($ Billion) - 1993	$129.4
Percent of All Manufacturing Shipments - 1993	4.2%
Percent of Real Gross Domestic Product (Real GDP) - 1991	0.8%
Exports (Million Tons) - 1993	21.6
Exports ($ Billion) - 1993	$9.5
Value of Exports as Percent of Total U.S. Merchandise Exports - 1993	2.0%
Net Profit Before Taxes ($ Billion) - 1993	$1.2
Net Profit Before Taxes to Net Sales - 1993	0.9%
Capital Investment ($ Billion), 1984 - 1993	$107.2
Of Which Pollution Abatement	$7.3
Percent Growth Capital Investment - 1983 - 1993	79.8%
Capital Invested Per Employee ($ 000) - 1993	$122.0
Capital Expenditures as Percent of Sales - 1984 - 1993	10.4%
Paper and Paperboard Production (Million Tons) - 1993	85.0
Paper & Paperboard Capacity (Million Tons) - 1993	91.0
Percent of World Capacity - 1992	29.0%
Percent of U.S. Capacity That Is Less Than 10 Years Old - 1992	59%
Number of Paper and Paperboard Mills - 1993	547
Number of Employees (000) - 1993	689.4
Employee Costs ($ Billion) - 1993	$31.1
Output Per Employee-hour at Wood Pulp, Paper and Paperboard Mills: Percent Change - 1983 - 1993	36.1%
Recovered Paper Consumption (Million Tons) - 1993	28.9
Recovered Paper Recovery Rate - 1993	39.1%
Paper and Paperboard Mills:	
Recovered Paper Consumed as Percent of Production - 1993	33.4%
Secondary Fibers Consumed as Percent of Total Fibers - 1993	54.9%
Pulp, Paper and Paperboard Mills - 1992	
Energy Consumption (Quadrillion BTU's)	2.62
Of Which Percent Self-Generated & Residue Fuels	57.0%
Percent of Total U.S. Energy Consumption	3.1%

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